WR-35 Rev (9-11)

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	09/24/2012	
API#:	47-2105623	

$-\Delta$	TION: Elevation:1104' GL / 1112' KB	Quadrangle:	Philippí		
•					
	District: Philippi Latitude: 2,290 Feet South of 39° Deg	County: Gilmo	er i, 00 Sec		
	Longitude 1,240 Feet West of 80° Deg				
	Company: PDC Mountaineer				
	Address: 120 Genesis Blvd.	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	Bridgeport, WV 26330	13 3/8"	27'	27'	
	Agent; Bob Williamson	9 5/8"	338'	338'	141
	Inspector: David Gilbert	7"	1,788'	1,788'	382
	Date Permit Issued: 10/01/2008	4 1/2"	4,798'	4,798′	375
	Date Well Work Commenced: 11/13/2008				
	Date Well Work Completed: 12/03/2008				
	Verbal Plugging:				
	Date Permission granted on:			ECEIVE	
	Rotary 🗸 Cable 🔃 Rig		_	e of Oll &	7
	Total Vertical Depth (ft): 5,563'				
	Total Measured Depth (ft): 5,563'		(EP 26 2012	
	Fresh Water Depth (ft.): 210'		1.0.		
	Salt Water Depth (ft:): NA			Departme	
	Is coal being mined in area (N/Y)? N		Environ	mental Pro	ptection
	Coal Depths (ft.): NA				
	Void(s) encountered (N/Y) Depth(s) N		•		
(N FLOW DATA (If more than two producing formation Benson Pay as: Initial open flow N/A MCF/d Oil: Initial open Final open flow 80 MCF/d Final open flow Time of open flow between initial and final tests tatic rock Pressure 1400 psig (surface pressure) a	zone depth (ft)_flowB wBt 720Hours	4678 bl/d sl/d	ta on separate sl	neet)
.0	econd producing formation N/A Pay 20	one denth (A)			
	as: Initial open flowMCF/d Oil: Initial open				
	Final open flow MCF/d Final open flo	wBt	ıl/d		
-	Time of open flow between initial and final tests	Hours			
	Time of open flow between initial and final tests	A TT			

Signature

Date

Were core samples taken? Yes		re cuttings caught during d	
Were Electrical, Mechanical or Geoph Callper,Temperature, Audio (Weatherford), Supério	rysical logs recorded on this well? F Cement Bond Log w/ 12-03-2008; GR/CCL.	If yes, please list Pholo Dens	ilty,Compensated Neutron, Array Induction,
NOTE: IN THE AREA BELOV FRACTURING OR STIMULATIN DETAILED GEOLOGICAL REC COAL ENCOUNTERED BY THE	NG, PHYSICAL CHANGE, ET CORD OF THE TOPS AND	C. 2). THE WELL LOG Y BOTTOMS OF ALL FO	WHICH IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Sti	mulating:		
12-03-2008: Rig up Superior Wireline &	run CBL/GR?CCL to TD 4777' &	CT at 1430'. Perforated in	sterval from 4,678 ft – 4,684 ft.
Frac'd 1 stage using 508 bbl treating t	luid, and 40,000 lbs of 30/50 sar	nd.	
			*
Di Di Di Ti ti ti Di Ti	175 (17.)	PPP HARMAN	
Plug Back Details Including Plug Typ	e and Depth(s): N/A		The state of the s
		, , , , , , , , , , , , , , , , , , ,	
Formations Encountered:	Top Depth		Bottom Depth
Surface;	•		
Little Lime	1803	1819	
Big Lime	1842	1918	
Big Injun	1922	1960	
Weir	2044	2172	
Fifth	2435	2441	
Riley	4356	4363	
Benson	4672	4682	·
Shale	4682	5563 TD	
No logs run above 1300'.			

DATE:		
API#:	47-4702812	u.

name: Berwind Land Company	Operator wer	l No.: CBM-MC9		
ATION: Elevation: 2,404.65'	Quadrangle: _\	Nar		
District: Blg Creek	County: McDo	owell		
Latitude: 5,975 Feet South of 37 Deg.	17Min	. <u>30</u> Sec		
Longitude 7,415 Feet West of 81 Deg.	42 Min	. <u>30</u> Sec	•	
pany: (INX Gas (Ipmpany LL	L			
	Casing &	Used in	Left in well	Cement fill
Address:	Tubing 13 3/8"	drilling 24'	24'	up Cu. Ft. n/a
2481 John Nash Blvd., Bluefield, WV 24701 Agent: John H. Johnston	7"	381.50'	381.50'	100 sks
Inspector: Gary L. Kennedy	4 1/2"	1,960.03'	1,960.03'	130 sks
Date Permit Issued: 7/20/2011	7 1/2	1,000.00	1,500.00	100 313
Date Well Work Commenced: 12/15/2011				
Date Well Work Completed: 12/21/2011		ļ		
Verbal Plugging:				
Date Permission granted on: Rotary Cable Rig				
Rotary Cable Rig Total Vertical Depth (ft): 2,080 DTD				
* * * * * * * * * * * * * * * * * * *				
Total Measured Depth (ft): Fresh Water Depth (ft.): 1,450 (damp)				
,				
Is coal being mined in area (N/Y)?				-
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s)				
PEN FLOW DATA (If more than two producing formatice Producing formation NO OPEN FLOW TEST CONDUCTED Pay 2 Gas: Initial open flow MCF/d Oil: Initial open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) af	zone depth (ft)_ lowB vBt Hours	bl/d bl/d	RESE	
Second producing formation Pay zo	ne depth (ft)		11:11	i joj
Gas: Initial open flowMCF/d Oil: Initial open fl	lowB	bl/d	JAM.	
Final open flow MCF/d Final open flow Time of open flow between initial and final tests		ol/d	The way very an end of	y 2014 Post of Office Battle Profice
Static rock Pressure psig (surface pressure) af	•	rs	- ill il cass.	
tify under penalty of law that I have personally examined a	and am familiar	with the inforn		
attachments and that, based on my inquiry of those individunt formation is true, accurate, and complete.	uais immediatel	y responsible fo	or obtaining the i	ntormation I belie
Buford Myers, V		.0	lika	
				

Were core samples taken? YesNo_X	Were cuttings caught during drilling? YesNo_X
Were $\frac{Y}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$ or Ge	eophysical logs recorded on this well?
FRACTURING OR STIMULATING, PHYSICAL	FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC OPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL URFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulating:	
Formations Encountered: Surface:	Top Depth / Bottom Depth
	<u> </u>
	AN TO TOTALION

COMPANY:

CNX GAS CO LLC

HOLE:

RIG:

MC-90

LOCATION:

BERWIND LAKE RD

DATE STARTED:

12/15/2011

DATE COMPLETED:

12/21/2011

294

ELECTRIC LOGGED:

GROUTED:

YES

YES

GROUTED:	YES			
DEPTH	THICKNESS		STRATA	
FROM	ТО	FT	DESCRIPTION, V	OIDS ETC
	0	24	24 OVERBURDEN	,
	24	30	6 SAND/SHALE	
	30	60	30 SAND/SHALE	•
	60	75	15 SAND/SHALE	
	75	76	1 COAL	
	76	90	14 SHALE/SAND	
	90	120	30 SAND/SHALE	
	120	150	30 SAND/SHALE	
	150	160	10 SHALE	
	160	161	1 COAL	
	161	180	19 SHALE/SAND	
	180	195	15 SAND/SHALE	
	195	196	1 COAL	
	196	210	14 SHALE/SAND	
	210	230	20 SAND/SHALE	
	230	231	1 COAL	
	231	240	9 SHALE/SAND	
	240	270	30 SAND/SHALE	
	270	300	30 SAND/SHALE	
	300	330	30 SAND/SHALE	
	330	360	30 SAND/SHALE	
	360	390	30 SAND/SHALE	
	390	401	11 SAND/SHALE	
	401	425	24 SAND/SHALE	
	425	427	2 COAL	
	427	430	3 SAND/SHALE	$M_{MM} = \frac{1}{2a} e^{i \pi i \pi i \pi}$
	430	460	30 SAND/SHALE	# C **
	460	490	30 SAND/SHALE	Control of the second second
	490	520	30 SAND/SHALE	Company of the second
	520	550	30 SAND/SHALE	The state of the s
	550	576	26 SAND/SHALE	The state of the s
	576	577	1 COAL	
	577	580	3 SAND/SHALE	
	580	610	30 SAND/SHALE	
	610	640	30 SAND/SHALE	
	640	658	18 SAND/SHALE	
	658	660	2 COAL	
	660	670	10 SAND/SHALE	
	670	690	20 SAND/SHALE	

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692
                            30 SAND/SHALE
                  730
700
                            15 SAND/SHALE
730
                  745
                            1 COAL
                  746
745
                            14 SHALE/SAND
                  760
746
760
                  790
                            30 SAND/SHALE
                            25 SAND/SHALE
790
                  815
                            1 COAL
                  816
815
                             4 SHALE
816
                  820
                            30 SHALE/SAND
820
                  850
                            25 SAND/SHALE
                  875
850
                             1 COAL
875
                  876
876
                  880
                             4 SHALE
                            30 SHALE/SAND/SHALE
                  910
880
                            15 SAND/SHALE
910
                  925
                             1 COAL
                  926
925
                  940
                            14 SHALE/SAND
926
                  970
                            30 SAND/SHALE
940
                            30 SAND/SHALE
970
                 1000
                            30 SAND/SHALE
                 1030
1000
                            30 SAND/SHALE
                 1060
1030
                            30 SAND/SHALE
                 1090
1060
                            30 SAND/SHALE
                 1120
1090
                            30 SAND/SHALE
                 1150
1120
                 1160
                            10 SAND/SHALE
1150
                             1 COAL
1160
                 1161
                 1180
                            19 SHALE/SAND
1161
                            30 SAND/SHALE
1180
                 1210
                            15 SAND/SHALE
1210
                 1225
                 1226
                             1 COAL
1225
                            14 SHALE/SAND
                 1240
1226
                             1 COAL
1240
                 1241
                            19 SHALE
                 1260
1241
                             1 COAL
                 1261
1260
                             9 SHALE/SAND
                 1270
1261
                            10 SAND/SHALE
                 1280
1270
                                               1 COAL
                 1281
1280
                            19 SHALE/SAND
                 1300
1281
                                                20 SAND/SHALE
1300
                 1320
                             1 COAL
                 1321
1320
                                                   植铁色 流流
                             9 SHALE/SAND
                 1330
1321
                            30 SAND/SHALE
1330
                 1360
                                              With all and
                            20 SAND/SHALE
                 1380
1360
                                          Erving, Market . Ow
                             1 COAL
1380
                 1381
                             9 SHALE/SAND
1381
                 1390
                            30 SAND/SHALE
                 1420
1390
                 1450
                            30 SAND/SHALE
1420
                            30 SAND/SHALE
1450
                 1480
                 1495
                            15 SAND/SHALE
1480
                 1496
                             1 COAL
1495
                            14 SHALE/SAND
1496
                 1510
```

2 COAL

8 SAND/SHALE

1510	1511	1 COAL
1511	1540	29 SHALE/SAND
1540	1570	30 SAND/SHALE
1570	1600	30 SAND/SHALE
1600	1630	30 SAND/SHALE
1630	1660	30 SAND/SHALE
1660	1688	28 SAND/SHALE
1688	1689	1 COAL
1689	1690	1 SAND/SHALE
1690	1720	30 SAND/SHALE
1720	1748	28 SAND/SHALE
1748	1749	1 COAL POCA 3
1749	1750	1 SAND/SHALE
1750	1760	10 SAND/SHALE
1760	1761	1 COAL
1761	1780	19 SAND/SHALE
1780	1808	28 SAND/SHALE
1808	1809	1 COAL
1809	1810	1 SAND/SHALE
1810	1840	30 SAND/SHALE
1840	1870	30 SAND/SHALE
1870	1900	30 SAND/SHALE
1900	1915	15 SAND/SHALE
1915	1916	1 COAL
1916	1930	14 SAND/SHALE
1930	1960	30 SAND/SHALE
1960	1990	30 SAND/SHALE
1990	2020	30 SAND/SHALE
2020	2050	30 SAND/SHALE
2050	2080	30 SAND/SHALE/RED SHALE
		2080

2080 FT TOTAL DEPTH 24 FT OF 13 3/8 CASING 381.50 FT OF 7 CASING 1960.03 FT OF 4 1/2 CASING



DATE:		
API #:	47-4702814	

name: Berwind Land Company		Il No.: CBM-MC		
ATION: Elevation: 2,062.51	Quadrangle:	Amonate		
District: Big Creek	County: McD			
Latitude: 350 Feet South of 37 Deg. Longitude 7,540 Feet West of 81 Deg.				
<u> </u>		i. <u>~~</u>	<i>i.</i>	
any: CNX Gas Corupany L				
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
2481 John Nash Blvd., Bluefield, WV 24701	13 3/8"	36'	36'	n/a
Agent: John H. Johnston	7"	381.95'	381.95'	100 sks
Inspector: Gary L. Kennedy	4 1/2"	1,560'	1,560'	105 sks
Date Permit Issued: 7/18/2011				
Date Well Work Commenced: 10/31/2011				
Date Well Work Completed: 11/09/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 1,750 DTD				
Total Measured Depth (ft):				
Fresh Water Depth (ft.): 50 (damp)				
Salt Water Depth (ft.): n/a				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s)				
PEN FLOW DATA (If more than two producing formation Producing formation NO OPEN FLOW TEST CONDUCTED Pay z Gas; Initial open flowMCF/d Oil: Initial open flow	one depth (ft)_owB	bl/d	-	neet)
Final open flow MCF/d Final open flow			¥.	•
Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) aft	· · · · · · · · · · · · · · · · · · ·			Law Syl
psig (surface pressure) and		1.5	£ 11	· r
Second producing formation Pay zor Gas: Initial open flow MCF/d Oil: Initial open flo			mari mari mari \$100 P. gr	And a Sign
Final open flow MCF/d Final open flow	Bt	ol/d		The second of the second of
Time of open flow between initial and final tests				
Static rock Pressurepsig (surface pressure) aft	erHou	rs		
fy under penalty of law that I have personally examined a achments and that, based on my inquiry of those individu formation is true, accurate, and complete.				
Buford Myers, VI			11/12	
W # K			of Man	

Were core samples taken? Yes No X Were cuttings caught during drilling? Yes No X Were Y Electrical, Y Mechanical, Y or Geophysical logs recorded on this well? NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMILIATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH. Perforated Intervals, Fracturing, or Samulating: Formations lincountered: Top Depth Bottom Depth Surface:		
NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1), DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2), THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH. Perforated Intervals, Fracturing, or Stimulating: Formations Encountered: Top Depth Bottom Depth Surface:	Were core samples taken? YesNo_X Were cuttings caught during drilling? YesNo_X	_
FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEFTH. Perforated Intervals, Fracturing, or Stimulating: Formations Encountered: Top Depth Bottom Depth Surface:	Were $\frac{Y}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$ or Geophysical logs recorded on this well?	
Formations Encountered: Top Depth / Bottom Depth Surface:	FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATI DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COA	IC
Surface:	Perforated Intervals, Fracturing, or Stimulating:	
Surface:		
Surface:		
Surface:		—
Surface:		
	Surface:	
		—
		_
		_
		_

COMPANY

CNX GAS CO LLC

HOLE

MC-127

RIG#:

294

LOCATION:

BERWIND LAKE RD, WV

DATE STARTED:

10/31/2011

DATE COMPLETED:

11/9/2011

ELECTRIC LOGGED: YES GROUTED: YES

DEPTH FROM	THICKNESS TO	FT	STRATA DESCRIPTION, VOIDS ETC.
0	1	36	36 OVERBURDEN
36	i	60	24 SAND/SHALE
60		70	10 SAND
70)	72	2 COAL
72		90	18 SAND/SHALE
90	1	120	30 SAND/SHALE
120	}	150	30 SAND/SHALE
150)	180	30 SAND/SHALE
180)	190	10 SAND
190)	191	1 COAL
· 191		210	19 SAND/SHALE
210)	240	30 SAND/SHALE
240)	270	30 SAND/SHALE
270)	300	30 SAND/SHALE
300)	330	30 SANDY SHALE/SAND
330)	350	20 SANDY SHALE
350)	352	2 COAL
352	2	360	8 SAND
360)	390	30 SAND
390)	400	10 SAND/SANDY SHALE
400)	420	20 SAND/SHALE
420)	421	1 COAL
421	1	430	9 SAND/SHALE
430)	460	30 SAND/SHALE
460)	490	30 SAND/SHALE
490)	510	20 SAND/SHALE
510)	511	1 COAL
51′	1	520	9 SAND/SHALE
520	כ	550	30 SAND/SHALE
550	כ	575	25 SAND/SHALE
575	5	576	1 COAL
576	3	580	4 SAND/SHALE
580)	610	30 SAND/SHALE
610	כ	640	30 SAND/SHALE
640)	670	30 SAND/SHALE
670)	700	30 SAND/SHALE
700	כ	701	1 COAL
701	1	730	29 SHALE/SAND
730	0	750	20 SAND/SHALE

750 751 760 775 776 790 820 850 880 910 920 921 940 970 1000 1030 1060 1090 1105 1106 1120 1140 1141 1150 1160 1161 1180 1210 1218 1219 1240 1255 1256 1270 1300 1315 1316 1330 1360 1390 1391	751 760 775 776 790 820 850 880 910 921 940 970 1000 1030 1060 1090 1105 1106 1120 1141 1150 1160 1161 1180 1218 1219 1240 1255 1256 1270 1300 1315 1316 1330 1360 1390 1391 1420	1 COAL 9 SHALE 15 SHALE 1 COAL 14 SHALE/SAND 30 SAND/SHALE 30 SAND/SHALE 30 SAND/SHALE 30 SAND/SHALE 10 SHALE 1 COAL 19 SHALE/SAND 30 SAND/SHALE 30 SAND/SHALE 30 SAND/SHALE 30 SAND/SHALE 30 SAND/SHALE 30 SAND/SHALE 10 SAND/SHALE 11 COAL 14 SHALE/SAND 20 SAND/SHALE 1 COAL 14 SHALE 1 COAL 19 SHALE 10 SHALE 10 SHALE 11 COAL 19 SHALE 10 SHALE 11 COAL 19 SHALE 11 COAL 19 SHALE/SAND 15 SAND/SHALE 11 COAL 11 SHALE/SAND 15 SAND/SHALE 11 COAL 11 SHALE/SAND 15 SAND/SHALE 11 COAL 11 SHALE/SAND 11 SAND/SHALE 11 COAL 12 SHALE/SAND 13 SAND/SHALE 11 COAL 14 SHALE/SAND 15 SAND/SHALE 11 COAL 12 SHALE/SAND 13 SAND/SHALE 11 COAL 12 SHALE/SAND 13 SAND/SHALE 11 CAOL 12 SHALE/SAND
1218	1219	1 COAL
	1240	21 SHALE/SAND
1240	1255	15 SAND/SHALE
1255		
		•
	1390	30 SAND/SHALE
1390		
1391		
1420	1450	30 SAND/SHALE 30 SAND/SHALE
1450 1480	1480 1510	30 SAND/SHALE
1510	1520	10 SHALE
1520	1521	1 COAL
1521	1540	19 SHALE/SAND
1540	1570	30 SAND/SHALE
1570	1600	30 SAND/SHALE
1600	1630 1660	30 SAND/SHALE 30 SAND/SHALE
1630 1660	1660 1690	30 SAND/SHALE
1000		CO CO STORY OF IT SIMBER

1690	1720	30 SAND/SHALE
1720	1735	15 SAND/SHALE
1735	1750	15 RED SHALE

1750' TOTAL DEPTH 36' OF 13 3/8" CASING 381.95' OF 7" CASING 1560' OF 4 1/2" CASING

DATE:		
API#:	47-4702815	

n name: Berwind Land Company	Operator Wel	l No.: <u>СВМ-МС1</u>	28		
CATION: Elevation: 1,891.92'	Quadrangle: War				
District: Big Creek	County: McDo				
Latitude: 14,140 Feet South of 37 Deg. Longitude 6,080 Feet West of 81 Deg.					
0.1.10		. <u>30</u> Sec	•		
npany: CNX GOS CONYDONY LL					
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
2481 John Nash Blvd., Bluefield, WV 24701	13 3/8"	26.50'	26.50'	n/a	
Agent: John H. Johnston	7"	380.60'	380.60'	150 sks	
Inspector: Gary L. Kennedy	4 1/2"	1,395.28'	1,395.28'	110 sks	
Date Permit Issued: 7/18/2011					
Date Well Work Commenced: 11/15/2011					
Date Well Work Completed: 11/18/2011					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 1,570 DTD					
Total Measured Depth (ft):					
Fresh Water Depth (ft.): 27 (3 gpm)					
Salt Water Depth (ft.): n/a					
Is coal being mined in area (N/Y)?					
Coal Depths (ft.):					
Void(s) encountered (N/Y) Depth(s)					
void(s) encountered (17/1) Deptit(s)	<u> </u>	<u> </u>			
OPEN FLOW DATA (If more than two producing formation			ita on separate sl	heet)	
Producing formation NO OPEN FLOW TEST CONDUCTED Pay 2 Gas: Initial open flow MCF/d Oil: Initial open flow					
Final open flow MCF/d Final open flow	v Bt	ol/d			
Time of open flow between initial and final tests					
Static rock Pressurepsig (surface pressure) af	terHou	rs			
Second producing formationPay zo	ne denth (ft)				
Gas: Initial open flow MCF/d Oil: Initial open fl		bl/d			
Final open flow MCF/d Final open flow					
Time of open flow between initial and final tests					
Static rock Pressure psig (surface pressure) af	terHou	rs			
ertify under penalty of law that I have personally examined attachments and that, based on my inquiry of those individuinformation is true, accurate, and complete.					
BLEFORD MULEYS, VICE		ASTA PARTY	-1.1		
		ec ec	1111111111		

Were core samples taken? Yes No Were cuttings caught during drilling? Yes No No
Were $\frac{Y}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$ or Geophysical logs recorded on this well?
NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulating:
Formations Encountered; Top Depth / Bottom Depth Surface:

COMPANY: HOLE:

CNX GAS CO LLC

MC-128

RIG:

244

LOCATION:

BERWIND LAKE, VA

DATE STARTED:

11/15/2011

DATE COMPLETED:

11/18/2011

ELECTRIC LOGGED: YES GROUTED: YES

DEPTH	THICKNESS		STRATA
FROM	ТО	FT	DESCRIPTION, VOIDS ETC
	0	26.5	26.5 OVERBURDEN
	26.5	30	3.5 SAND/SHALE
	30	60	30 SAND/SHALE/COAL (COAL @ 45-46)
	60	90	30 SAND/SHALE/COAL (COAL @67-68)
	90	120	30 SAND/SHALE/COAL (COAL @115-116)
	120	150	30 SAND/SHALE
	150	180	30 SAND/SHALE/COAL (COAL @155-156 &179-180)
	180	210	30 SAND/SHALE
	210	220	10 SAND/SHALE
	220	222	2 COAL
	222	240	18 SAND/SHALE
	240	270	30 SAND/SHALE
	270	300	30 SAND/SHALE
	300	330	30 SAND/SHALE
	330	356	26 SAND/SHALE
	356	357	1 COAL
	357	360	3 SAND/SHALE
*	360	390	30 SAND/SHALE
	390	400	10 SAND/SHALE
	400	415	15 SAND/SHALE
	415	426	11 SAND/SHALE
	426	456	30 SAND/SHALE/COAL (COAL @447-448)
	456	486	30 SAND/SHALE
	486	516	30 SAND/SHALE/COAL (COAL @504-505)
	516	546	30 SAND/SHALE
	546	576	30 SAND/SHALE/COAL (COAL @554-555)
	576	606	30 SHALE/COAL (COAL @605-606)
	606	636	30 COAL/SHALE (COAL @611)
	636	670	34 SHALE/COAL/SHALE (COAL @662-663)
	670	700	30 SHALE/SAND/SHALE
	700	730	30 SHALE/COAL/SHALE (COAL @707-708)
	730	760	30 SHALE/COAL/SHALE (COAL @732-733)
	760	790	30 SHALE/COAL/SHALE (COAL @767-768 &788-789)
	790	820	30 SAND/SHALE
	820	850	30 SAND/SHALE
	850	880	30 SHALE/COAL/SHALE (COAL @879-880)
	880	910	30 SHALE/COAL/SHALE (COAL @904-906)
	910	940	30 SHALE/COAL/SHALE (COAL @938-939)
	940	970	30 SHALE/COAL/SHALE (COAL @964-966)
	970	1000	30 SHALE/SAND/SHALE
	1000	1030	30 SHALE/COAL/SHALE (COAL @1018-1019)
	1030	1060	30 SHALE/COAL/SHALE

1060	1090	30 SAND/SHALE
1090	1120	30 SAND/SHALE/COAL (COAL @1119-1120)
1120	1150	30 COAL/SHALE (COAL @1120-1121)
1150	1180	30 SHALE
1180	1210	30 SANDY SHALE/SHALE
1210	1240	30 SANDY SHALE
1240	1270	30 SANDY SHALE/COAL/SANDY SHALE (COAL @1250-1251)
1270	1300	30 SANDY SHALE/SAND
1300	1330	30 SANDY SHALE/COAL/SANDY SHALE (COAL @1320-1321)
1330	1360	30 SANDY SHALE
1360	1390	30 SANDY SHALE
1390	1420	30 SANDY SHALE
1420	1450	30 SAND/SANDY SHALE
1450	1480	30 SANDY SHALE
1480	1510	30 SANDY SHALE
1510	1540	30 SANDY SHALE
1540	1570	30 SANDY SHALE/RED SHALE (RED SHALE @1555)
		1570

1570 FT TOTAL DEPTH 26.50 FT OF 13 3/8 CASING 380.60 FT OF 7 CASING 1395.28 FT IF 4 1/2 CASING

DATE:	
API #:	47-4702816

Farm name: Berwind Land Company	Operator Well	No.: CBM-MC1	30		
LOCATION: Elevation: 2,098.15'	Quadrangle: War				
District: Big Creek Latitude: 11,700 Feet South of 37 Deg. Longitude 4,695 Feet West of 81 Deg.					
Company: CNX Gas COMPany LL	L				
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
2481 John Nash Blvd., Bluefield, WV 24701	13 3/8"	24'	24'	n/a	1 .
Agent: John H. Johnston	7"	381.48'	381.48'	100 sks	1
Inspector: Gary L. Kennedy	4 1/2"	1,607.87'	1,607.87'	120 sks	1
Date Permit Issued: 7/05/2011]
Date Well Work Commenced: 12/05/2011]
Date Well Work Completed: 12/09/2011					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					_]
Total Vertical Depth (ft): 1,785 DTD					
Total Measured Depth (ft):					
Fresh Water Depth (ft.): n/a					
Salt Water Depth (ft.): n/a					<u>.</u>
Is coal being mined in area (N/Y)?					
Coal Depths (ft.):					
Void(s) encountered (N/Y) Depth(s)					
OPEN FLOW DATA (If more than two producing formation Producing formation NO OPEN FLOW TEST CONDUCTED Pay	ons please incluzone depth (ft)	de additional da	ita on separate sl	heet)	_
Gas: Initial open flowMCF/d Oil: Initial open	flowB	bl/d		Francisco de la compansión de la compans	The strategy bear.
Final open flow MCF/d Final open flo Time of open flow between initial and final tests					
Static rock Pressure psig (surface pressure) a				Mary State	in the
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ZUD
Second producing formation Pay zo Gas: Initial open flow MCF/d Oil: Initial open		 bl/d	4	Barrier W. Nacing	-
Final open flow MCF/d Final open flo		ol/d	97 e ²⁷)	and the second of the second o	
Time of open flow between initial and final tests	Hours			Control of State of S	ز ۾ جي شيءِ رياڙ ۾ ال
Static rock Pressure psig (surface pressure) a	afterHou	rs			
I certify under penalty of law that I have personally examined the attachments and that, based on my inquiry of those individ the information is true, accurate, and complete.					
& Day		5	1.1/2		
Signature Butford Nyers, Vice	ie Pres-VA	Gasops.	Date		

Were core samples taken? YesNo_X Were cuttings ca	nught during drilling? Yes No X
Were $\frac{Y}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$ or Geophysical logs recorded on t	
NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAFRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE V DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF A ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEP	WELL LOG WHICH IS A SYSTEMATIC ALL FORMATIONS, INCLUDING COAL
Perforated Intervals, Fracturing, or Stimulating:	
Formations Encountered: Top Depth / Surface:	Bottom Depth

COMPANY:

CNX GAS COLLC

HOLE:

MC-130

RIG:

244

LOCATION:

DATE STARTED:

12/5/2011

DATE COMPLETED:

12/9/2011

ELECTRIC LOGGED: YES

GROUTED:

YES

DEPTH	THICKNESS	STRATA
FROM	TO FT	DESCRIPTION, VOIDS ETC
1	0 24	24 OVERBURDEN
Ž	24 30	6 SAND
3	30 60	30 SAND/SHALE
6	so 90	30 SAND/SHALE/COAL (COAL @75-76)
Ş	90 120	30 SAND/SHALE
12	20 150	30 SAND/SHALE
15	50 180	30 SAND/SHALE
18	30 210	30 SAND/SHALE/COAL (COAL @201-202)
21	0 240	30 SAND/SHALE/COAL (COAL @215-216 & 218-219)
24	10 270	30 SAND/SHALE/COAL (COAL @268-269)
27	70 300	30 SAND/SHALE
30	00 330	30 SAND/SHALE/COAL (COAL @320-321)
33	360	30 SAND/SHALE
36	390	30 SAND/SHALE
39	90 401	11 SAND/SHALE
40	01 427	26 SAND/SHALE/COAL (COAL @409-110)
42	27 457	30 SAND/SHALE/COAL (COAL @435-436 & 436-437 &
		447-448 & 449-450)
48	57 487	30 SAND/SHALE/COAL (COAL @478-479 & 480-481)
48	37 51 7	30 SAND/SHALE
51	17 547	30 SAND/SHALE/COAL (COAL @534-536)
	17 577	30 SAND/SHALE
57	77 607	30 SAND/SHALE
. 60	07 637	30 SAND/SHALE/COAL (COAL @615-616 & 621-622)
	37 667	30 SAND/SHALE
66	697	30 SAND/SHALE
	97 727	30 SAND/SHALE
72	27 757	30 SAND/SHALE
	57 787	30 SAND/SHALE/COAL (COAL @772-773 & 778-779)
	37 817	30 SAND/SHALE/COAL (COAL @806-807 & 810-812 & 813-814)
81		30 SAND/SHALE
84		38 SAND/SHALE/COAL (COAL @851-852)
	35 915	30 SAND/SHALE/COAL (COAL @886-887)
91		30 SAND/SHALE/COAL (COAL @933-934)
	15 975	30 SAND/SHALE/COAL (COAL @967-968)
97		30 SAND/SHALE
100		30 SAND/SHALE
103		30 SAND/SHALE
106		30 SAND/SHALE
109		30 SAND/SHALE/COAL (COAL @1101-1102)
112		30 SAND/SHALE/COAL (COAL @1144-1145)
115	55 1185	30 SAND/SHALE/COAL (COAL @1163-1164)

1185	1215	30 SAND/SHALE/COAL (COAL @1191-1192)	
1215	1245	30 SAND/SHALE	
1245	1275	30 SAND/SHALE	
1275	1305	30 SAND/SHALE	
1305	1335	30 SAND/SHALE/COAL (COAL @1333-1335)	
1335	1365	30 SAND/SHALE	
1365	1395	30 SAND/SHALE/COAL (COAL @1375-1376)	
1395	1425	30 SAND/SHALE/COAL (COAL @1405-1406 & 1420-1421)	
1425	1455	30 SAND/SHALE	
1455	1485	30 SAND/SHALE	
1485	1515	30 SAND/SHALE	
1515	1545	30 SAND/SHALE/COAL (COAL @1520-1521)	
1545	1575	30 SAND/SHALE/COAL (COAL @1555-1556 & 1559-1560)	
1575	1605	30 SAND/SHALE	
1605	1635	30 SAND/SHALE	
1635	1665	30 SAND/SHALE	
1665	1695	30 SAND/SHALE	
1695	1725	30 SAND/SHALE	
1725	1755	30 SAND/SHALE	
1755	1785	30 SAND/SHALE/RED SHALE @1775	
		1785	

1785 FT TOTAL DEPTH 24 FT OF 13 3/8 CASING 381.48 FT OF 7 CASING 1607.87 FT OF 4 1/2 CASING

DATE:	•	
API #:	47-4702817	

Farm name: Berwind Land Company	Operator Wel	l No.: CBM-MC1	34	·	
LOCATION: Elevation: 2,211.43'	Quadrangle:	War		· · · · · · · · · · · · · · · · · · ·	
District: Big Creek Latitude: 9,820 Feet South of 37 Deg. Longitude 4,830 Feet West of 81 Deg.	County: McDo 17 Min 42 Min	. <u>30</u> Sec			
Company: CNX Gas CDMpany LL		500	•		
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
2481 John Nash Blvd., Bluefield, WV 24701	13 3/8"	45.95'	45.95'	n/a	
Agent: John H. Johnston	7"	376.10	376.10	130 sks	
Inspector: Gary L. Kennedy	4 1/2"	1,731.32'	1,731.32'	120 sks	
Date Permit Issued: 7/05/2011					
Date Well Work Commenced: 11/15/2011					
Date Well Work Completed: 11/18/2011					
Verbal Plugging;					1
Date Permission granted on:		, ,			
Rotary Cable Rig					
Total Vertical Depth (ft): 1,900 DTD					
Total Measured Depth (ft):					-
Fresh Water Depth (ft.): n/a					
Salt Water Depth (ft.): n/a					
Is coal being mined in area (N/Y)?					
Coal Depths (ft.):					
Void(s) encountered (N/Y) Depth(s)					
void(s) encountered (14/1) Depen(s)		<u> </u>		L	j
OPEN FLOW DATA (If more than two producing formation Producing formation NO OPEN FLOW TEST CONDUCTED Pay 2 Gas: Initial open flow MCF/d Oil: Initial open flow	zone depth (ft)_		ta on separate sh	eet)	
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow		bl/d l/d	ļ		
Time of open flow between initial and final tests				e greene en	Later America
Static rock Pressurepsig (surface pressure) af	terHou	rs		**	-1 7
Second producing formationPay zon	ne denth (ft)			MA D	£344
Gas: Initial open flowMCF/d Oil: Initial open fl			i	(A.C. C.	
Final open flow MCF/d Final open flow			400 400		and the second of the second o
Time of open flow between initial and final tests					×
I certify under penalty of law that I have personally examined a the attachments and that, based on my inquiry of those individuate information is true, accurate, and complete.					
BN			Date		
Butod Myers, Vice	Pres-VA-G	asOps.	Date		

Were core samples taken? Yes	No X	ere cuttings caught during drilling? Yes	X
Were $\frac{Y}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechan	nical, $\frac{Y}{Y/N}$ or Geophysical logs	recorded on this well?	
FRACTURING OR STIMULATIN	G, PHYSICAL CHANGE, ET DRD OF THE TOPS AND BO	S: 1). DETAILS OF PERFORATED C. 2). THE WELL LOG WHICH IS A FTOMS OF ALL FORMATIONS, INCI FOTAL DEPTH.	SYSTEMATIC
Perforated Intervals, Fracturing, or Stir	nulating:		
	30.b.		
Formations Encountered: Surface:	Top Depth	/ Botton	n Depth
•	See Exhibit F	1	
			Washington and the second seco
			VRT & 41111-101
			, , , , , , , , , , , , , , , , , , , ,
	·		

COMPANY:

CNX GAS CO LLC

HOLE:

MC-134

RIG:

294

LOCATION:

DATE STARTED:

11/15/2011

DATE COMPLETED:

11/18/2011

ELECTRIC LOGGED YES

GROUTED: YES

DEPTH	THICK	NESS		STRATA
FROM	ТО	FT		DESCRIPTION, VOIDS ETC
	0	45.95	45.95	OVERBURDEN
	45.95	60		SAND/SHALE
	60	61		COAL
	61	90		SHALE/SAND
	90	120		SAND/SHALE
	120	150		SAND/SHALE
	150	180		SAND/SHALE
	180	210		SAND/SHALE
	210	240		SAND/SHALE
	240	270		SAND/SHALE
	270	300		SAND/SHALE
	300	330		SAND/SHALE
	330	350		SAND/SHALE
	350	351		COAL
	351	360		SHALE/SAND
	360	390		SAND/SHALE
	390	396		SAND/SHALE
	396	400		SANDY SHALE
	400	430		SANDY SHALE/SAND
	430	460		SANDY SHALE/COAL/SAND (COAL @455-456)
	460	490		SAND/SANDY SHALE
	490	520		SANDY SHALE/SAND
	520	550	30	SANDY SHALE/COAL/SANDY SHALE
				(COAL @525-527 & 530-531)
	550	580		SANDY SHALE/SAND
	580	610		SANDY SHALE/COAL/SAND (COAL @595-598 & 599-600)
	610	640		SAND/SANDY SHALE/COAL (COAL @630-632)
	640	670		SAND/SHALE
	670	685		SAND/SHALE
	685	686		COAL
	686	700		SHALE/SAND
	700	730		SANDICHALE
	730	760 770		SAND/SHALE
	760 770	770		SHALE VALUE ZEE
	770	771 700		COAL
*	771	790 830		COAL SHALE/SAND SAND/SHALE SAND/SHALE SHALE
	790	820 850		SAND/SHALE SAND/SHALE
	820 850	860		SHALE
	860	861		COAL
	860 861	880		SHALE/SAND
				SAND/SHALE
	880	910	30	SANUISHALE

910	935	25 SAND/SHALE
935	936	1 COAL
936	940	4 SHALE
940	945	5 SHALE
945	946	1 COAL
946	970	24 SHALE/SAND
970	985	15 SAND/SHALE
985	986	1 COAL
986	1000	14 SHALE/SAND
1000	1030	30 SAND/SHALE
1030	1060	30 SAND/SHALE
1060	1065	5 SHALE
1065	1066	1 COAL
1066	1090	24 SHALE/SAND/SHALE
1090	1091	1 COAL
1091	1120	29 SHALE/SAND
1120	1135	15 SAND/SHALE
1135	1136	1 COAL
1136	1150	14 SHALE/SAND
1150	1180	30 SAND/SHALE
1180	1210	30 SAND/SHALE
1210	1240	30 SAND/SHALE
1240	1255	15 SAND/SHALE
1255	1256	1 COAL
1256	1270	14 SAND/SHALE
1270	1297	27 SAND/SHALE
1297	1299	2 COAL
1299	1300	1 SAND/SHALE
1300	1330	30 SAND/SHALE
1330	1335	5 SAND/SHALE
1335	1337	2 COAL
1337	1360	23 SAND/SHALE
1360	1375	15 SAND/SHALE
1375	1377	2 COAL
1377	1390	13 SAND/SHALE
1390	1420	30 SAND/SHALE
1420	1450	30 SAND/SHALE
1450	1480	30 SAND/SHALE
1480	1483	3 SAND/SHALE
1483	1485	2 COAL POCA 3
1485	1510	25 SAND/SHALE
1510	1537	27 SAND/SHALE
1537	1538	1 SAND/COAL
1538	1540	2 SAND/SHALE
1540	1560	20 SAND/SHALE
1560	1561	1 COAL
1561	1570	9 SAND/SHALE
1570	1600	30 SAND/SHALE
1600	1620	20 SAND/SHALE
1620	1621	1 COAL
1621	1630	9 SAND/SHALE
1630	1660	30 SAND/SHALE
1660	1685	25 SAND/SHALE
1685	1687	2 COAL
1687	1690	3 SAND/SHALE

1690	1720	30 SAND/SHALE
1720	1750	30 SAND/SHALE
1750	1780	30 SAND/SHALE
1780	1810	30 SAND/SHALE
1810	1840	30 SAND/SHALE
1840	1870	30 SAND/SHALE
1870	1890	20 SAND/SHALE
1890	1900	10 RED SHALE
		1900

1900 FT TOTAL DEPTH 45.95 FT OF 13 3/8 CASING 376.1 FT OF 7 CASING 1731.32 FT OF 4 1/2 CASING

DATE:	
API#:	47-4702819

Farm name: Berwind Land Company	Operator Wel	l No.: CBM-MC1	36		
LOCATION: Elevation: 2,335.91'	Quadrangle: War				
District: Big Creek	County: McDo			***************************************	
Latitude: 7,940 Feet South of 37 Deg.					
	42 Min				
Company: CNX Gas Company LLC					
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
2481 John Nash Blvd., Bluefield, WV 24701	13 3/8"	19'	19'	n/a	
Agent: John H. Johnston	7"	339.55'	339.55'	100 sks	
Inspector: Gary L. Kennedy	4 1/2"	1,830.16'	1,830.16'	120 sks	
Date Permit Issued: 7/01/2011					
Date Well Work Commenced: 11/09/2011					
Date Well Work Completed: 11/14/2011					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 2,020 DTD					
Total Measured Depth (ft):					
Fresh Water Depth (ft.): n/a					
Salt Water Depth (ft.): n/a					
Is coal being mined in area (N/Y)?				-	
Coal Depths (ft.):					
Void(s) encountered (N/Y) Depth(s)					
OPEN FLOW DATA (If more than two producing formati	ons please inclu	de additional da	ta on senarate sh	eet)	
Producing formation NO OPEN FLOW TEST CONDUCTED Pay		ic additional da	u on separate sa	cory	
Gas: Initial open flow MCF/d Oil: Initial open f					
Final open flow MCF/d Final open flo				112-12 January 12 Charles over	
Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) a					
pois (ouritors prosouro) u		.0		MAT 3 - 2012	
Second producing formation Pay zo			文作 亦是		
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow MCF/d Final open flow			Andrews Control of the Control of th	Mary San	
Time of open flow between initial and final tests					
Static rock Pressurepsig (surface pressure) a					
I certify under negalty of law that I have personally evamined	and am familiar	with the inform	ation submitted :	on this document and all	
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that					
the information is true, accurate, and complete.					
Roha			Date		
Butival My ers, Vice	Drac-Vin A	nac Dine	Date		
SOCIAIN INCH CIS, VICE	TIES VET C	iaschs.			

Were core samples taken? YesNo_X	Were cutting	gs caught during drilling	g? YesNo	, X
Were $\frac{Y}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$ or Geoph	ysical logs recorded	on this well?		
NOTE: IN THE AREA BELOW PUT THE FOI FRACTURING OR STIMULATING, PHYSICAL CH DETAILED GEOLOGICAL RECORD OF THE TOPS ENCOUNTERED BY THE WELLBORE FROM SURF	ANGE, ETC. 2). TI AND BOTTOMS	HE WELL LOG WHI OF ALL FORMATIO	ICH IS A SYSTI	MATIC
Perforated Intervals, Fracturing, or Stimulating:				
		· ·		
LAMA -		and the second second		
Formations Encountered: To Surface:	p Depth	1	Bottom Depth	ł
	11 to 10 to			
See Exh. b. + A				

			W-V	
	<u> </u>	- M-Mr.	11-20-P-0	
		- 		·····
		,		

COMPANY:

CNX GAS CO LLC

HOLE:

MC-136

RIG:

LOCATION:

BERWIND LAKE RD, VA

DATE STARTED:

11/9/2011

DATE COMPLETED: 11/14/2011

ELECTRIC LOGGED YES GROUTED: YES

DEPTH FROM	THICI TO	KNESS FT		STRATA DESCRIPTION, VOIDS ETC
I I/OIN	0		Sec	OVERBURDEN
	19.55			SAND/SHALE
	30	45		SAND/SHALE
	45	46		COAL
	46	60		SHALE/SAND
	60	90		SAND/SHALE
	90	100		SHALE
	100	101	1	COAL
	101	120	19	SHALE/SAND
	120	145	25	SAND/SHALE
	145	146	1	COAL
	146	150	4	SHALE
	150	180	30	SHALE/SAND
•	180	210	30	SAND/SHALE
	210	240	30	SAND/SHALE
	240	270		SAND/SHALE
	270	295		SAND/SHALE
	295	296		COAL
	296	300		SHALE
	300	330		SAND/SHALE
	330	360		SAND/SHALE
	360	370		SAND/SHALE
	370	400		SAND/SHALE
	400	430		SAND/SHALE
	430	445		SAND/SHALE
	445	446		COAL
	446	460		SHALE/SAND
	460	490		SAND/SHALE
	490	520 550		SAND/SHALE
	520 550	550 554		SAND/SHALE COAL
	550	551 580		SHALE/SAND
	551 580	600		SAND/SHALE
	580 600	601		COAL
	601	610		SHALE
	610	620		SHALE
	620	621		COAL
	621	640		SHALE
	640	645		SHALE
	645	646		COAL
	646	665		SHALE/SAND/SHALE
	665	666		COAL

```
666
           670
                     4 SHALE
670
           700
                    30 SHALE/SAND/SHALE
700
           701
                     1 COAL
                    29 SHALE/SAND/SHALE
           730
701
                    15 SAND/SHALE
730
           745
                     1 COAL
745
           746
746
           760
                    14 SHALE/SAND
                    30 SAND/SHALE
760
           790
                    15 SAND/SHALE
790
           805
                     1 COAL
805
           806
                    14 SHALE/SAND
806
           820
           850
                    30 SAND/SHALE
820
                    30 SAND/SHALE
           880
850
880
           910
                    30 SAND/SHALE
                    10 SAND/SHALE
910
           920
920
           921
                     1 COAL
                    19 SHALE/SAND
           940
921
940
           970
                    30 SAND/SHALE
                    30 SAND/SHALE
970
           1000
                    30 SAND/SHALE
1000
           1030
                    15 SAND/SHALE
1030
           1045
                     1 COAL
1045
           1046
                    14 SHALE/SAND
1046
          1060
1060
           1085
                    25 SAND/SHALE
           1086
                     1 COAL
1085
           1090
                     4 SHALE
1086
                    20 SAND/SHALE
           1110
1090
1110
           1111
                     1 COAL
                     9 SHALE/SAND
1111
           1120
           1130
                    10 SHALE
1120
                     1 COAL
1130
           1131
           1150
                    19 SHALE/SAND/SHALE
1131
                     1 COAL
           1151
1150
1151
           1180
                    29 SHALE/SAND
                    30 SAND/SHALE
1180
           1210
1210
           1230
                    20 SAND/SHALE
                     1 COAL
           1231
1230
1231
           1240
                     9 SHALE/SAND
                    30 SAND/SHALE
           1270
1240
1270
           1271
                     1 COAL
           1300
                    29 SHALE/SAND
1271
1300
           1330
                    30 SAND/SHALE
                    30 SAND/SHALE
           1360
1330
1360
           1375
                    15 SAND/SHALE
                     1 COAL
           1376
1375
                     14 SHALE/SAND
1376
           1390
                    30 SAND/SHALE
1390
           1420
                     10 SAND/SHALE
1420
           1430
1430
           1431
                     1 COAL
                     19 SHALE/SAND
           1450
1431
1450
           1475
                     25 SAND/SHALE
                     1 COAL
1475
           1476
1476
           1480
                     4 SHALE
                     30 SAND/SHALE
1480
           1510
                    20 SAND/SHALE
1510
           1530
```

1530	1531	1 COAL
1531	1540	9 SAND/SHALE
1540	1570	30 SAND/SHALE
1570	1585	15 SAND/SHALE
1585	1588	3 COAL POCA 3
1588	1600	12 SAND/SHALE
1600	1630	30 SAND/SHALE
1630	1660	30 SAND/SHALE
1660	1690	30 SAND/SHALE
1690	1717	27 SAND/SHALE
1717	1718	1 COAL
1718	1720	2 SAND/SHALE
1720	1750	30 SAND/SHALE
1750	1780	30 SAND/SHALE
1780	1790	10 SAND/SHALE
1790	1791	1 COAL
1791	1800	9 SAND/SHALE
1800	1801	1 COAL
1801	1810	9 SAND/SHALE
1810	1840	30 SAND/SHALE
1840	1870	30 SAND/SHALE
1870	1900	30 SAND/SHALE
1900	1930	30 SAND/SHALE
1930	1960	30 SAND/SHALE
1960	1990	30 SAND/SHALE
1990	2000	10 SAND/SHALE
2000	2020	20 RED SHALE
		0000

2020

2020FT TOTAL DEPTH 19.55FT OF 13 3/8 CASING 339.55FT OF 7 CASING 1830.16FT OF 4 1/2 CASING

DATE:		
API #:	47-4702821	

Farm name: Berwind Land Company	Operator We	II No.: CBM-MC1	38	PECALVED TOTAL	e. Je na
LOCATION: Elevation: 2,267.18'	Quadrangle: _	War	30,000	•	Triviality (
District: Big Creek	County: McD				
Latitude: 6,810 Feet South of 37 Deg Longitude 6,505 Feet West of 81 Deg	g. <u>17 Mir</u> g. <u>42 Mir</u>				* **
Company: CNX Gas Company LLC	٠ <u></u>			Notes of the second	
A 13	Casing &	Used in	Left in well	Cement fill	
Address: 2481 John Nash Blvd., Bluefield, WV 24701	Tubing 13 3/8"	drilling 29'	29'	up Cu. Ft.	
Agent: John H. Johnston	7"	377.10'	377.10'	100 sks	
Inspector: Gary L. Kennedy	4 1/2"	1,860.48'	1,860.48'	120 sks	
Date Permit Issued: 7/18/2011	7 172	1,000.40	1,000.40	120 383	
Date Well Work Commenced: 12/21/2011					
Date Well Work Completed: 12/28/2011		. -			
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig Total Vertical Depth (ft): 1,960 DTD			<u> </u>	 	
Total Measured Depth (ft):					
Fresh Water Depth (ft.): 90 (damp) Salt Water Depth (ft.): n/a					
Is coal being mined in area (N/Y)?				<u> </u>	
Coal Depths (ft.):					
Void(s) encountered (N/Y) Depth(s)					
OPEN FLOW DATA (If more than two producing format Producing formation NO OPEN FLOW TEST CONDUCTED Pay Gas: Initial open flow MCF/d Oil: Initial open Final open flow MCF/d Final open flo Time of open flow between initial and final tests Static rock Pressure psig (surface pressure)	y zone depth (ft) flowB owBI Hours	Bbl/d bl/d s	ita on separate sl	neet)	
Second producing formation Pay 2 Gas: Initial open flow MCF/d Oil: Initial open Final open flow MCF/d Final open flo Time of open flow between initial and final tests Static rock Pressure psig (surface pressure)	flowBiHours	3			
I certify under penalty of law that I have personally examined the attachments and that, based on my inquiry of those indivi- the information is true, accurate, and complete.					
Bn			-loloz		
Buford Myers, Vil	ce Pres-VA	Gas Ops.	Date		

Were core samples taken? Yes No Were cuttings caught during drilling? Yes No No Were $\frac{Y}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$ or Geophysical logs recorded on this well?			
NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LO DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FOR ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.	G WHICH IS A SYSTEMATIC		
Perforated Intervals, Fracturing, or Stimulating:			
Formations Encountered: Top Depth / Surface:	Bottom Depth		

COMPANY

CNX GAS CO LLC

HOLE

MC-138

RIG#: LOCATION:

BERWIND LAKE RD, WV

DATE STARTED:

12/21/2011

294

DATE COMPLETED:

12/28/2011

ELECTRIC LOGGED: YES GROUTED:

641

GROUTED.	169			
DEPTH	THICKNESS		STRATA	
FROM	ТО	FT	DESCRIPTION, VOIDS	ETC.
	0	29	29 OVERBURDEN	
	29	30	1 SAND/SHALE	
	30	60	30 SAND/SHALE	
	60	80	20 SAND/SHALE	
	80	81	1 COAL	
	81	90	9 SHALE	
	90	95	5 SHALE	
	95	96	1 COAL	
	96	120	24 SHALE/SAND	
	120	121	1 COAL	
	121	150	29 SHALE/SAND	
	150	180	30 SAND/SHALE	
	180	210	30 SAND/SHALE	
	210	240	30 SAND/SHALE	
	240	270	30 SAND/SHALE	
	270	280	10 SAND/SHALE	
	280	281	1 COAL	
•	281	300	19 SHALE/SAND	
	300	330	30 SAND/SHALE	
	330	360	30 SAND/SHALE	
	360	390	30 SAND/SHALE	
	390	400	10 SAND/SHALE	
	400	430	30 SAND/SHALE	
	430	445	15 SAND/SHALE	
	445	446	1.COAL	
	446	460	14 SHALE/SAND	
	460	490	30 SAND/SHALE	
	490	520	30 SAND/SHALE	
	520	535	15 SAND/SHALE	
	535	536	1 COAL	
a.	536	550	14 SHALE/SAND	
	550	580	30 SAND/SHALE	
	580	581	1 COAL	
	581	605	24 SHALE/SAND/SHALE	
	605	606	1 COAL	
	606	610	4 SHALE	
	610	640	30 SHALE/SAND/SHALE	
	640	641	1 COAL	

670

29 SHALE/SAND

Land Control of the State of th and the second s

670	700	30 SAND/SHALE
700	725	25 SAND/SHALE
725	726	1 COAL
726	730	4 SHALE
730	760	30 SHALE/SAND
760	785	25 SAND/SHALE
785	786	1 COAL
786	790	4 SHALE
790	820	30 SAND/SHALE
820	850	30 SAND/SHALE
850	880	30 SAN/DSHALE
880	910	30 SAND/SHALE
910	940	30 SAND/SHALE
940	941	1 COAL
941	970	29 SHALE/SAND
970	985	15 SAND/SHALE
985	986	1 COAL
986	1000	14 SAND/SHALE
1000	1025	25 SAND/SHALE
1025	1026	1 COAL
1026	1030	4 SAND/SHALE
1030	1058	28 SAND/SHALE
1058	1060	2 COAL
1060	1090	30 SAND/SHALE
1090	1120	30 SAND/SHALE
1120	1135	15 SAND/SHALE
1135	1136	1 COAL
1136	1150	14 SAND/SHALE
1150	1180	30 SAND/SHALE
1180	1205	25 SAND/SHALE
1205	1206	1 COAL
1206	1210	4 SAND/SHALE
1210	1240	30 SAND/SHALE
1240	1270	30 SAND/SHALE
1270	1300	30 SAND/SHALE
1300	1330	30 SAND/SHALE
1330	1337	7 SAND/SHALE
1337	1338	1 COAL
1338	1360	22 SAND/SHALE
1360	1375	15 SAND/SHALE
1375	1376	1 COAL
1376	1390	14 SAND/SHALE
1390	1420	30 SAND/SHALE
1420	1450	30 SAND/SHALE
1450	1480	30 SAND/SHALE
1480	1510	30 SAND/SHALE
1510	1527	17 SAND/SHALE
1527	1530	3 COAL/POCA-3
1530	1540	10 SAND/SHALE
1540	1570	30 SAND/SHALE
1570	1600	30 SAND/SHALE
1600	1630	30 SAND/SHALE

CONTRACTOR

1. P. Jan

an managa A

1630	1660	30 SAND/SHALE
1660	1670	10 SAND/SHALE
1670	1 671	1 COAL
1671	1690	19 SHALE/SAND
1690	1720	30 SAND/SHALE
1720	1750	30 SAND/SHALE
1750	1751	1 COAL
1751	1780	29 SHALE/SAND
1780	1810	30 SAND/SHALE
1810	1840	30 SAND/SHALE
1840	1870	30 SAND/SHALE/SAND
1870	1900	30 SAND/SHALE/SAND
1900	1930	30 SAND/SHALE
1930	1960	30 RED SHALE

1960' TOTAL DEPTH 29' OF 13 3/8" CASING 377.10' OF 7" CASING 1860.48' OF 4 1/2" CASING

> PECENSE Office of the second

> > MAN FOREST

DATE:		
API#:	47-4702822	

n name: Berwind Land Company	Operator Wel	ll No.: <u>CBM-MC1</u>	41	,
CATION: Elevation: 2,260.70'	Quadrangle:	War		
District: Big Creek	County: McDe	owell		•
	leg. 17 Min. 30 Sec.			
Longitude 6,480 Feet West of 81 Deg.	42 Min	. 30 Sec	-	
npany: CNX Gas Company LLC	<u> </u>			
Address:	Casing & Tubing	Used in	Left in well	Cement fill
2481 John Nash Blvd., Bluefield, WV 24701	13 3/8"	drilling 10'	10'	up Cu. Ft.
Agent: John H. Johnston	7"	380.63'	380.63'	210 sks
Inspector: Gary L. Kennedy	4 1/2"	1,778.60'	1,778.60'	120 sks
Date Permit Issued: 6/17/2011		1,77.0.00	1,170.00	120 510
Date Well Work Commenced: 8/29/2011				
Date Well Work Completed: 9/01/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig		 		
Total Vertical Depth (ft): 1,945 DTD				
Total Measured Depth (ft):			:	
Fresh Water Depth (ft.): 100 (damp)				
Salt Water Depth (ft.): n/a				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s)				
Producing formation NO OPEN FLOW TEST CONDUCTED Pay Z Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) aft	cone depth (ft)_ owBbHours	oI/d I/d	ta on separate sh	eet)
Second producing formation Pay zon			+14.	
Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow			f_{s}	
Final open flow MCF/d Final open flow Time of open flow between initial and final tests		1/U }	Why can	11 A 867
Static rock Pressure psig (surface pressure) aft		rs 4		
rtify under penalty of law that I have personally examined as attachments and that, based on my inquiry of those individual information is true, accurate, and complete.				
Buford Myers, VII		. •	Date	
	·····			

Were core samples taken? YesNo_X	Were cuttings caught during drilling? YesNo_X
Were $\frac{Y}{Y/N}$ Electrical, $\frac{Y}{Y/N}$ Mechanical, $\frac{Y}{Y/N}$ or Geophysical	al logs recorded on this well?
FRACTURING OR STIMULATING, PHYSICAL CHANG	WING: 1). DETAILS OF PERFORATED INTERVALS, E, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC D BOTTOMS OF ALL FORMATIONS, INCLUDING COAL E TO TOTAL DEPTH.
WET OF LAND AND AND AND AND AND AND AND AND AND	
Free to the transfer of the tr	
Formations Encountered: Top Dep Surface:	oth / Bottom Depth
	Walletin I
	·
	· · · · · · · · · · · · · · · · · · ·

COMPANY:

CNX GAS CO. LLC

HOLE:

MC-141

RIG: LOCATION:

WARRIOR MINE RD, WV

DATE STARTED:

8/29/2011

DATE COMPLETED:

9/1/2011

90

DEPTH FROM	THICKNESS TO	FT		STRATA DESCRIPTION, VOIDS ETC
	0	10		OVERBURDEN
	10	30		SAND/SHALE
	30	60		
	60	62		SAND/SHALE
	62	90		COAL SAND/SHALE
	90	120		SAND/SHALE
	120	150		SAND/SHALE
	150	180		SAND/SHALE
	180	210		SAND/SHALE
	210	240		SAND/SHALE
	240	270		SAND/SHALE
	270	300		SAND/SHALE
	300	320		SAND/SHALE
	320	322		COAL
	322	330		SAND
	330	360		SAND/SHALE
	360	390		SAND/SHALE
	390	400		SAND
	400	415		SAND/SHALE
	415	417		COAL
	417	430		SAND/SHALE
	430	460		SAND/SHALE
	460	490		
	490	520		AND/SHALE
	520	548		AND/SHALE AND/SHALE
	548	550		
	550	580 580		COAL AND/SHALE
	580	610		:AND/SHALE :AND/SHALE
	610	618		AND
	618	620		OAL
	620	640		AND/SHALE
	640	670		AND/SHALE AND/SHALE
	670	700		AND/SHALE AND/SHALE
	700	700 720		AND/SHALE
	700	720 722		OAL
	720			AND
	730	730 760		
	760	760 790		AND/SHALE
	790	790 820		AND/SHALE AND/SHALE
	820	850		AND/SHALE AND/SHALE
	020	000	3U 3/	MIND/SHALE

	850	880	30	SAND/SHALE
	880	910	30	SAND/SHALE
	910	940	30	SAND/SHALE
	940	968	28	SAND/SHALE
	968	970	2	COAL
	970	1000	30	SAND/SHALE
•	1000	1030	30	SAND/SHALE
•	1030	1060	30	SAND/SHALE
•	1060	1090	30	SAND/SHALE
•	1090	1118	28	SAND/SHALE
•	1118	1120	2	COAL
•	1120	1145	25	SAND/SHALE
•	1145	1146	1	COAL
•	1146	1150	4	SAND
•	1150	1180	30	SAND/SHALE
•	1180	1210	30	SAND/SHALE
	1210	1240	30	SAND/SHALE
•	1240	1270	30	SAND/SHALE
•	1270	1300	30	SAND/SHALE
•	1300	1330	30	SAND/SHALE
	1330	1360	30	SAND/SHALE
•	1360	1390	30	SAND/SHALE
	1390	1420	30	SAND/SHALE
	1420	1450	30	SAND/SHALE
	1450	1480	30	SAND/SHALE
	1480	1510	30	SANDY SHALE/SAND
	1510	1534	24	SANDY SHALE
	1534	1537	3	COAL P3???
	1537	1540	3	SANDY SHALE
	1540	1570	30	SANDY SHALE/SAND
	1570	1600	30	SANDY SHALE/SAND
	1600	1630	30	SANDY SHALE
	1630	1660	30	SANDY SHALE
	1660	1690	30	SAND/SANDY SHALE
	1690	1720	30	SAND/SANDY SHALE
	1720	1735	15	SANDY SHALE
	1735	1737	2	COAL
	1737	1750	13	SANDY SHALE/SAND
	1750	1780	30	SANDY SHALE/SAND
	1780	1810	30	SAND/SANDY SHALE
	1810	1840		SANDY SHALE/SAND
	1840	1870		SAND/SANDY SHALE
	1870	1900		SANDY SHALE/SAND
	1900	1930		SAND
	1930	1945	15	SAND

1945 FT. TOTAL DEPTH 10 FT. 13 3/8" CASING 380 FT. OF 7" CASING 1778.61 FT. OF 4 1/2" CASING

		C-
DATE:	5/15/2012	
API#:	47-049-02153	

Farm name: Consol Energy	Operator We	ll No.: Crim 4H		
LOCATION: Elevation: 1,221	Quadrangle:	Shinnston 7.5'		
District: Lincoln	County: Mario	on		
	g. 30Mir			
Longitude 2,970' Feet West of 80 De	eg. <u>17</u> Mir	1, 30 Sec	· Ş.	Contract of the second
Company: XTO Energy, Inc.				ر ک اف
Address: PO Box 1008, Jane Lew, WV 26378	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	20"	40'	40'	280 sks
Agent: Gary Beall	13 3/8"	615'	615'	525 sks
Inspector: Tristan Jenkins	9 5/8"	2,881'	2,881'	981 sks
Date Permit Issued: 2/18/2011	5 1/2"	10,540'	10,540'	1,788 sks
Date Well Work Commenced: 9/23/2011				
Date Well Work Completed: 11/17/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 7,521				
Total Measured Depth (ft): 10,544				
Fresh Water Depth (ft.): 1440'				
Salt Water Depth (ft.): None Noted	.			
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): None Noted				
Void(s) encountered (N/Y) Depth(s) No				
OPEN FLOW DATA (If more than two producing formation Marcellus Page Gas: Initial open flow Show MCF/d Oil: Initial open Final open flow Show MCF/d Final open flow between initial and final tests—Static rock Pressure—————————————————————————————————	ay zone depth (ft) n flow B low B Hours	7,520' ibl/d bl/d s	ata on separate s	sheet)
Second producing formation Pay Gas: Initial open flow MCF/d Oil: Initial open Final open flow MCF/d Final open f Time of open flow between initial and final tests Static rock Pressure psig (surface pressure)	n flowB lowBl Hours	sbl/d ol/d s		
I certify under penalty of law that I have personally examine all the attachments and that, based on my inquiry of those in that the information is true, accurate, and complete. Signatur	ndividuals immedi	ately responsibl		
Signatur	e		Date	

Were core sa	amples taken?	Yes	No_X	W	ere cuttings ca	ught during drillir	ng? YesX	No
Were Electri	ical, Mechanica of Penetration, VS, TV	l or Geophy D, MWD, Mudic	rsical logs reco	ded on this wel	l? If yes, pleas	e list		
FRACTUR DETAILEI COAL EN	ING OR STIN	MULATING CAL RECO BY THE V	G, PHYSICAI ORD OF TH WELLBORE I	CHANGE, E E TOPS AND	TC. 2). THE V BOTTOMS	ILS OF PERF VELL LOG WH OF ALL FORM AL DEPTH.	ICH IS A SY	STEMATIC
Stg 1 Marcellus; 1	0,337'-10,467'; 72 sh	nots; Slick water	frac; Avg treating 7	185 psi@71 bpm; 57	,967#s 100 mesh; 1	70,351#s 30/50 mesh; 5	,711 bbl water, 407	bbl treated water
Stg 2 Marcellus;	10,172'-10,302'; 72 s	hots; Slick wat	er frac; Avg treating	7185 psi@69 bpm;	58#s 100 mesh; 168	3,284#s 30/50 mesh; 5,6	320 bbl water, 216	bbl treated water
Stg 3 Marcellus; 1	0,007'-10,137'; 72 sh	nots; Slick water	frac; Avg treating 7	128 psi@76 bpm; 61	,746#s 100 mesh; 16	39,750#s 30/50 mesh; 5	,166 bbl water, 561	bbl treated water
Stg 4 Marcellus; 9	9,342'-9,972'; 72 shot	ts; Slick water f	rac; Avg treating 72	71 psi@80 bpm; 58,7	'52#s 100 mesh; 17	1,640#s 30/50 mesh; 5,	188 bbl water, 570	bbl treated water
Stg 5 Marcellus; 9	9,677'-9,807'; 72 shot	ts; Slick water f	rac; Avg treating 730	06 psi@82 bpm; 60,4	80#s 100 mesh; 13	8,092#s 30/50 mesh; 5,	076 bbl water, 432	bbl treated water
Stg 6 Marcellus; 9	9,512'-9,642'; 72 shot	ls; Slick water f	rac; Avg treating 73	71 psi@80 bpm; 66,9	062#s 100 mesh; 17:	2,058#s 30/50 mesh; 5,i	623 bbl water, 486	bbl treated water
Plug Back D	etails Including	Plug Type	and Depth(s):					
See addit	ional page	-						
Formations Surface:	Encountered:			Top Depth	/		Bottom De	epth
SH	0 / 150							
SS	150/160							
SS & SH	160/235							
SS	235/285				•••		•	
SS & SH	285/355						-	
SH	355/415							
SS	415/420							
SH & SS	420/640							
SH	640/928							
SS & SH	928/1014							
SS	1014/1020							
SH	1020/1045						_	
LS	1045/1060)						
SS & SH	1060/1170).						
See addition	onal page							
						·		

Additional Stages

Stg 7 Marcellus; 9,347'-9,477'; 72 shots; Slick water frac; Avg treating 7170 psi@80 bpm; 60,136#s 100 mesh; 171,604#s 30/50 mesh; 5,324 bbl water, 523 bbl treated water

Stg 8 Marcellus; 9,182'-9,312'; 72 shots; Slick water frac; Avg treating 6933 psi@83 bpm; 60,332#s 100 mesh; 171,816#s 30/50 mesh; 5,345 bbl water, 497 bbl treated water

Stg 9 Marcellus; 9,017'-9,147'; 72 shots; Slick water frac; Avg treating 7239 psi@82 bpm; 52,139#s 100 mesh; 96,377#s 30/50 mesh; 5,644 bbl water, 423 bbl treated water.

Stg 10 Marcellus; 8,852'-9,982'; 72 shots; Slick water frac; Avg treating 6826 psi@82 bpm; 56,690#s 100 mesh; 171,073#s

30/50 mesh; 5,184 bbl water, 489 bbl treated water Stg 11 Marcellus; 8,687'-8,917'; 72 shots; Slick water frac; Avg treating 6891 psi@82 bpm; 61,954#s 100 mesh; 172,215#s 30/50 mesh; 5,181 bbl water, 571 bbl treated water

Stg 12 Marcellus; 8,522'-8,622'; 72 shots; Slick water frac; Avg treating 6871 psi@82 bpm; 78,290#s 100 mesh; 173,408#s

30/50 mesh; 6,101 bbl water, 247 bbl treated water

Additional Formation Log

SS & SH	1170	1225
SS	1225	1250
SS & SH	1250	1380
SS	1380	1440
SH & SS	1440	1565
SH	1565	2000
SH & SS	2000	2200
SH	2200	2400
SH & SS	2400	2725
SH	2725	3120
SH & SLTST	3120	3130
SH	3130	3160
SH & SLTST	3160	3250
SH & SLTST & SS	3250	3310
SH & SLTST	3310	3340
SH & SLTST & SS	3340	3370
SH & SLTST	3370	3430
SLTST & SH	3430	3460
SH & SLTST	3460	3640
SH	3640	3700
SH & SLTST	3700	3880
SH	3880	3910
SH & SLTST	3910	3940
SH	3940	4000
SH & SLTST	4000	4330
SH	4330	4510
SH & SLTST	4510	4570
SH	4570	4660
SH & SLTST & SS	4660	4690
SH & SLTST	4690	4900

2" Stream H2O @ 1440"

Additional Formation Log SH SH & SLTST SH SH & SLTST SH SH & SLTST SLTST & SH SH & SLTST SH SH & SLTST SH LS & SH SH & LS SH

47-049-02153

Crim 4H

SH,LS

SH SH & LS

SH

Burkett	7281 MD	7355 MD
	7235 TVD	7295 TVD
Tully	7355 MD	7427 MD
	7295 TVD	7349 TVD
Hamilton	7427 MD	L
	7349 TVD	7406 TVD
Marcellus	7516 MD	10544 MD
	7406 TVD	7521 TVD

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	04-10-2012
API#:	47-097-03762

Quadrangle: _K	OCK CAVE 7.5		
County: UPSH	UR		•
Deg. Min.	Sec.		
DegMin.			
ias			
Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
13 3/8		40	SAND IN
9 5/8		472	75 SK
7 "		1846	230 SK
4 1/2 N 80		7062	150 SK
2011			
-2011			
		_	
	Surv.		
			385
	Apple, N. H. P. com.		
	Įvi.	4Y 07 2012	
	<u> </u>	<u> </u>	nt oi
	Land Control of the	ngarini Pa	<u>iedion</u>
		4-15-1111	
ucing formations please included the plant included	962 - 7058	ta on separate si	neet)
Final open flow Bb			
final tests Hours			
ce pressure) after 24 Hour	rs		
Dougnas double (A)			
Pay zone depth (ft) Initial open flow Bb	n/d		
Final open flowBb			
ce pressure) afterHour	rs		
final open flow final tests H ce pressure) after	_Bb ours Hou	_Bbl/d ours Hours	Bbl/d ours Hours
illy examined and am fan	niliar	niliar with the inform	niliar with the information submitted nediately responsible for obtaining t

Date

Were core samples taken? Ye Were Electrical, Mechanical or		Were cuttings caught during drilling? Yes X No No I this well? If yes, please list ELECTRICAL
PRACTURING OR STIMUL DETAILED GEOLOGICAL	LATING, PHYSICAL CHA RECORD OF THE TO	LOWING: 1). DETAILS OF PERFORATED INTERVALS NGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIO PS AND BOTTOMS OF ALL FORMATIONS, INCLUDING SURFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing,	, or Stimulating:	
PERFS 7010 - 7042 96 H	OLES	
15471 BBL H2O, 16246 S		0, 4004 40/70
AVG PRESURE 4142 AVG	G RATE 75	
ISIP 1708		
Plug Back Details Including Plu	g Type and Denth(s):	
	5 - 7 P - mid 2 opini(s).	
Formations Encountered: Surface:	Top	Depth / Bottom Depth
GROUND EL	1741	
Big Injun	1282 - 1418	
INJUN	1418 - 1499	
BENSON	3774 - 3799	
ALEXANDER	3882 - 4148	
ELK	5124 - 5148	
GENESEO	6820 6860	Office of Gil & Gas
TULLY	6860- 6890	
HAMILTON SHALE	6890 - 6962	MAY 0.7 2017.
JPPER MARCELLUS	6962 - 7006	BAR F Thomas and a second
PURCELL	7006 - 7008	Property of the control of the contr
OWER MARCELLUS	7008- 7058	್ರಾಯ್ ಪರ್ವಾಪ್ ಮಾಡುವ ಕ್ರಾಯ್ ಕ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ ಪ್ರತಿ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ ಪ್ರತಿ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರಾಯ್ ಪ್ರತಿ ಪ
ONONDAGA	7058 - 7070	

DATE:	04/12/2012	
API#:	47-097-03780	

arm name; LANDIS, MARTHA (LIFE ESTATE)	Operator Well	No.: GOWER 1	-WV0416	
OCATION: Elevation: 1629	Quadrangle: _	ADRIAN 7.5		<u>. </u>
District: MEADE	County: UPSI	l UR		
Latitude: 38-53-44.7 Feet South of Deg.	Min		-	
Longitude 80-15-23.7 Feet West of Deg.	Min			
Company: MOUNTAIN V OIL and GAS				
Address: P.O. Box 470	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport WV 26330	13 3/8		42'	SAND IN
Agent: Mike Shaver	9 5/8		210	75 SK
Inspector: Bill Hatfield	7 "		1826	275 SK
Date Permit Issued: 03-01-2011	4 1/2 N 80		7160	150 SK
Date Well Work Commenced: 11-13-2012				
Date Well Work Completed: 12-03-201				
Verbal Plugging:				
Date Permission granted on:		1	Sal Carlos Village	
Rotary Cable Rig		Offic	e of Oil ix	Cich
Total Vertical Depth (ft): 7170		E.	AV 67 2017	
Total Measured Depth (ft): 7170		į	11-11 G 1 CO+6	
Fresh Water Depth (ft.): 90		2022	Doparins	ri oʻ
Salt Water Depth (ft.): 1340		V T V ET van ci rest	mental Pi	otaction
Is coal being mined in area (N/Y)? N		Promit Edition		
Coal Depths (ft.): 210				
Void(s) encountered (N/Y) Depth(s)				
OPEN FLOW DATA (If more than two producing formatic Producing formation MARCELLUS Pay : Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure 2600 psig (surface pressure) af	zone depth (ft) ⁷ lowBl vBbHours	7034 - 7140 bl/d bl/d	ita on separate sh	sect)
Second producing formation Pay zoo Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests	low Bl v Bb Hours	bl/d l/d		
Static rock Pressurepsig (surface pressure) af certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of these individual the information is true, accurate, and complete.	and am familiar	with the informately responsible	nation submitted to for obtaining the	on this document ne information I bo

Were core samples taken? Yes_	No_X	Were cuttings caught during drilling? Yes X No
Were Electrical, Mechanical or G	eophysical logs recorder	d on this well? If yes, please list ELECTRICAL
Perforated Intervals, Fracturing, o	ATING, PHYSICAL C RECORD OF THE THE THE WELLBORE FRO	OLLOWING: 1). DETAILS OF PERFORATED INTERVALS HANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIO TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING OM SURFACE TO TOTAL DEPTH.
PERFS 7091 - 7094 12 HO	LES, 7102 - 7112 4	0 HOLES, 7118 - 7130 48 HOLES
SLICK WATER FRACK 162	15 BBI H20 1655	4 BBL SLURRY 1830 SK 80/100, 4028 SK 40/70,
AVG PRESURE 5326 AVG		
Plug Back Details Including Plug	Type and Depth(s):	
Formations Encountered: Surface:		Cop Depth / Bottom Depth
GROUND EL	1700	
GREENBRIER BIG LIME	1445 - 1715	
INJUN	1445 - 2227	
GORDON	2227 - 2357	
5 TH SAND	2397 - 2467	Office of Off & Geo
3 RD RILEY	3637 - 3678	w. A055
3 KD KILET		86AV A 7 25117
***************************************	4022 - 4081	MAY 0 7 2012
BENSON		
BENSON GENESEO SHALE	4022 - 4081	van Premerin ent Of
BENSON GENESEO SHALE TULLY LS	4022 - 4081 6879 - 6914	van Premerin ent Of
BENSON GENESEO SHALE TULLY LS HAMILTON SHALE	4022 - 4081 6879 - 6914 6914 - 6957	
BENSON GENESEO SHALE TULLY LS HAMILTON SHALE UPPER MARCELLUS	4022 - 4081 6879 - 6914 6914 - 6957 6957 - 7033	van Premerin ent of
BENSON GENESEO SHALE TULLY LS HAMILTON SHALE UPPER MARCELLUS PURCELL LS LOWER MARCELLUS	4022 - 4081 6879 - 6914 6914 - 6957 6957 - 7033 7033 - 7073	van Premerin ent Of

DATE:	04-13-2012	
API#:	4-097-03782	

Farm name; GOULD, CLETE , JR.	Operator Wel	No.: CLETE GO	ULD 7H-WV0419		
LOCATION: Elevation: 1591	Quadrangle: Adrian 7.5				
	County: UPS			-	
Longitude 80 29 686 W Feet West of Deg.	Mir	iSec.			
Company: Mountain V Oil and Gas					
Address: P.O. Box 470	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Bridgeport WV 26330	20"		42'	SAND IN	
Agent: Mike Shaver	13 3/8		337	258 SK	
Inspector: Bill Hatfield	8 5/8		4343	1275 SK	
Date Permit Issued: 03-22-2011	5 1/5		10,307	780 SK	
Date Well Work Commenced: 09-16-2011					
Date Well Work Completed: 01-02-2012		STALL STALL STALL IS	20% /24% - 12 (1894-1994)		
Verbal Plugging:		200 0 000			
Date Permission granted on:			Di â Ges		
Rotary Cable Rig		MAY 0	7 2012		
Total Vertical Depth (ft): 7516			The was the		
Total Measured Depth (ft): 10,329		WV Dana	rment of		
Fresh Water Depth (ft.): 55	free [m]		ai Paueci	a a a a a a a a a a a a a a a a a a a	
Salt Water Depth (ft.): 1468					
Is coal being mined in area (N/Y)?					
Coal Depths (ft.): 298 - 303					
Void(s) encountered (N/Y) Depth(s)					
	-l				
OPEN FLOW DATA (If more than two producing formation Producing formation MARCELLUS Pay	ons please inclu zone depth (ft)		ita on separate sh	eet)	
Gas: Initial open flow 1750 MCF/d Oil: Initial open f					
Final open flow 2000 MCF/d Final open flow					
Time of open flow between initial and final tests	Hours	5			
Static rock Pressure 2150 psig (surface pressure) at	fter <u>96 </u>	ırs			
Second producing formation Pay 20	ne depth (ft)				
Gas: Initial open flow MCF/d Oil: Initial open f	lowB	bl/d			
Final open flow MCF/d Final open flow					
Time of open flow between initial and final tests					
Static rock Pressurepsig (surface pressure) at	fterHou	ITS			
I certify under penalty of law that I have personally examined					
all the attachments and that, based on my inquiry of those indi	viduals immedi	ately responsibl	e for obtaining tl	ne information I believe	
that the information is true, accurate, and complete			,		
	n_	_ <u> </u>	-19-12		
Signature			Date		

Were core samples taker	1? YesNo	Were cui	ttings caught during drilling? Yes. NoNo
Were Electrical, Mechar	nical or Geophysical logs re	ecorded on this well? If y	es, please list GEOPHYSICAL
FRACTURING OR S DETAILED GEOLO	TIMULATING, PHYSIC	CAL CHANGE, ETC. 2) THE TOPS AND BOT	DETAILS OF PERFORATED INTERV THE WELL LOG WHICH IS A SYSTEM. TOMS OF ALL FORMATIONS, INCLUI TOTAL DEPTH.
Perforated Intervals, Fra	cturing, or Stimulating:		
SEE ATTACHED SI	HEET		Super liver and the super liver live
			Office of Oil & Gas
Mary Company of the C	Attractor and the state of the		
			MAY V 7 ZOIZ
			All a second and the second
			- The result of Protection
	ding Plug Type and Depth(toron a a series
3 1/4 HOLE 7545	- 5845 CEMENT K	ICK PLUG	
T	d.	Top Depth	/ Bottom Depth
Formations Encountere Surface:		Top Deptil	
GROUND EL	1591	·	
GREENBRIER BIG	LIME 1360 - 1586	BENSON	4024 - 4100
BIG INJUN	1586 - 1642	ALEXANDER	4226 - 4503
SQUAW	1642 - 1724	ELK	4503 - 6560
WEIR	1724 - 1813	HAVERTY	6560 - 7030
BEREA / GTZ	1813 - 1886	GENESEE SHA	LE 7228 - 7268
50 FT	1886 - 1954	TULLY	7268 - 7300
30 FT	1954 - 2001	HAMILTON SHA	ALE 7300 - 7398
Gordon	2062 - 2170	UPPER MARCE	ELLUS 7398 - 7448
4th SS	2170 - 2243	PURCELL LS	7448 - 7452
EIL CC	2243 - 2352	LOWER MARCI	ELLUS 7452 - 7504
อนา 33			
·· · · · · · · · · · · · · · · · · · ·	2352 - 2460	ONONDAGA	7504 - 7516
5th SS Warren Speechley		ONONDAGA	7504 - 7516

MOUNTAIN V OIL and GAS CLETE GOULD 7H WV0419 47-097-03782

STAGE # 1 PERFS 10252 - 10250 12 HOLES, 10183 - 10181 12 HOLES, 10114 - 10112 12 HOLES, 10045 - 10043 12 HOLES, 9975 - 9973 12 HOLES

SLICK WATER FRAC AVG PSI 6485, AVG RATE 83.4 BPM, ISIP 4249, H2O 7301, SLURRY 7582, 80/100 234 SK, 40 / 70 1987 SK

STAGE # 2 PERFS 9903 - 9901 12 HOLES, 9834 - 9832 12 HOLES, 9765 - 9763 12 HOLES, 9696 - 9694 12 HOLES, 9626 - 9624 12 HOLES

SLICK WATER FRAC AVG PSI 6789, AVG RATE 78.9 BPM, ISIP 4535 H2O 7403, SLURRY 7691, 80/100 251 SK, 40 / 70 2054 SK

STAGE # 3 PERFS 9454 - 9452 12 HOLES, 9485 - 9483 12 HOLES, 9416 - 9414, 9347 - 9345 12 HOLES, 9277 - 9275 12 HOLES

SLICK WATER FRAC AVG PSI 6802, AVG RATE 78.7 BPM, ISIP 5058, H2O 7346, SLURRY 7662, 80/100 250 SK, 40 / 70 2003 SK

STAGE # 4 PERFS 9205 - 9203 12 HOLES, 9136 - 9134 12 HOLES 9067 - 9065 12 HOLES 8998 - 8996 12 HOLES 8928 - 8926 12 HOLES

SLICK WATER FRAC AVG PSI 7097, AVG RATE 80.7 BPM, ISIP 4774, H2O 7257, SLURRY 7533, 80/100 229 SK, 40 / 70 2002 SK

STAGE # 5 PERFS 8856 - 8854 12 HOLES 8787 - 8785 12 HOLES 8718 - 8716 12 HOLES 8649 - 8647 12 HOLES 8579 - 8577 12 HOLES

SLICK WATER FRAC AVG PSI 7088, AVG RATE 78.2 BPM, ISIP 4696 H2O 7101, SLURRY 7375, 80/100 229 SK, 40 / 70 2002 SK

STAGE # 6 PERFS 8507 - 8505 12 HOLES, 8438 - 8436 12 HOLES' 8369 - 8367 12 HOLES, 8300 - 8298 12 HOLES, 8230 - 8228 12 HOLES

SLICK WATER FRAC AVG PSI 6780, AVG RATE 83.12 BPM, ISIP 5206 H2O 7316, SLURRY 7631, 80/100 250 SK, 40 / 70 2004 SK

STAGE # 7 PERFS 8158 - 8156 12 HOLES 8089 - 8087 12 HOLES 8020 - 8018 12 HOLES 7951 - 7949 12 HOLES 7881 - 7879 12 HOLES

SLICK WATER FRAC AVG PSI 6892, AVG RATE 82.1 BPM, ISIP 4381 H2O 7320, SLURRY 7616, 80/100 250 SK, 40 / 70 2033 SK

MECEIVED Office of Oil & Gas

MAY 07 2012

www.Department of Environmental Protection STAGE # 8 PERFS 7809 - 7807 12 HOLES, 7740 - 7738 12 HOLES, 7671 - 7669 12 HOLES, 7602 - 7600 12 HOLES, 7532 - 7530 12 HOLES

SLICK WATER FRAC AVG PSI 6576, AVG RATE 83.2 BPM, ISIP 4760 H2O 7371, SLURRY 7654, 80/100 250 SK, 40 / 70 2047 SK

RECEIVED Office of Oil & Gas

MAY 07 2012

VIV Department of Environmental Protection

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	04-10-2012	
API#:	47-097-03810	-

Farm name: Fidler, John & Lois - RE	VOCA	Operator Well No.: Maxine Fidler # 5-WV0429
LOCATION: Elevation: 1882		Quadrangle: ROCK CAVE 7.5
	Feet South ofDeg. Feet West ofDeg.	County: <u>24 </u>

MOUNTAIN V OIL and GAS Company: Casing & P.O. Box 470 Used in Left in well Address: Cement fill Tubing drilling up Cu. Ft. Bridgeport WV 26330 13 3/8 40 SAND IN Agent: Mike Shaver 9 5/8 472 160 SK Inspector: Bill Hatfield 7 " 1846 250 SK Date Permit Issued: 08-23-2011 4 1/2 N 80 7080 150 SK Date Well Work Commenced: 10-23-2011 Date Well Work Completed: 11-10-2011 Verbal Plugging: Date Permission granted on: Rotary Cable Rig Office Total Vertical Depth (ft): 7088 Total Measured Depth (ft): 7088 Fresh Water Depth (ft.): 82' Salt Water Depth (ft.): and a procession Is coal being mined in area (N/Y)? Coal Depths (ft.): 210, 395 Void(s) encountered (N/Y) Depth(s) OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet) Producing formation MARCELLUS Pay zone depth (ft) 6986 - 7075 Gas: Initial open flow 500 MCF/d Oil: Initial open flow_ _Bbl/d Final open flow 460,000 MCF/d Final open flow Bbl/d Time of open flow between initial and final tests_ Static rock Pressure 1000 __psig (surface pressure) after 24 Second producing formation Pay zone depth (ft) Gas: Initial open flow_ MCF/d Oil: Initial open flow_ Bbl/d Final open flow___ _MCF/d Final open flow _ Bbl/d Time of open flow between initial and final tests_ Hours Static rock Pressure_ __psig (surface pressure) after _ Hours I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of these individuals immediately responsible for obtaining the information I believe

that the information is true, accurate, and 4-18-12-

·	esNo_X	We	re cuttings caught during	g drilling? Yes_X	No
Were Electrical, Mechanical or	Geophysical logs reco	orded on this well?	If yes, please list ELEC	CTRICAL	·
NOTE: IN THE AREA I FRACTURING OR STIMUL DETAILED GEOLOGICAL COAL ENCOUNTERED BY	L RECORD OF TH	L CHANGE, ETC IE TOPS AND I	C. 2). THE WELL LOC ROTTOMS OF ALL	G WHICH IS A S	
Perforated Intervals, Fracturing	, or Stimulating:				
PERFS 7038 - 7060 88 H	IOLES				
13054 PRI 1420, 14864 0	11001/ 4045 01/	504450 4046			
13954 BBL H2O, 14861 S AVG PRESURE 4185 AVG		80/100, 4043	40/70		
SIP 1657	G NATE 70.2			· · · · · · · · · · · · · · · · · · ·	·····
Diagnosis Diagnosis	g Type and Denth(s):				
Plug Back Details Including Plu	a chemina perintal.				
Plug Back Details Including Plu	g Type and Depth(s).				
Formations Encountered:	2 -) po and 2 - print(s).	Top Depth	1	Bottom L	<u>Jepth</u>
Formations Encountered: Surface:	1882	Top Depth	The first first the first		Depth
Formations Encountered: Surface: GROUND EL			receite Office of OH &		epth .
Formations Encountered: Surface: GROUND EL Big Injun	1882		Office of Oil B	98	<u>Jepth</u>
Formations Encountered: Surface: BROUND EL Big Injun	1882 1453 - 1589			98	Depth
Formations Encountered: Surface: GROUND EL Big Injun NJUN ENSON	1882 1453 - 1589 1589 - 1670		Office of Oil &) Gas	Depth
Formations Encountered: Surface: GROUND EL lig Injun NJUN ENSON LEXANDER	1882 1453 - 1589 1589 - 1670 3945 - 3970		Office of Oil & MAY 07 2012 WW Denatimer) Gas	<u>Depth</u>
Formations Encountered: Surface: GROUND EL lig Injun NJUN ENSON LEXANDER LK	1882 1453 - 1589 1589 - 1670 3945 - 3970 4053 - 4319		Office of Oil &) Gas	Depth
Formations Encountered: Surface: GROUND EL Ing Injun NJUN ENSON LEXANDER LK ENESEO	1882 1453 - 1589 1589 - 1670 3945 - 3970 4053 - 4319 5295 - 5319		Office of Oil & MAY 07 2012 WW Denatimer) Gas	Depth
Formations Encountered: Surface: GROUND EL Hig Injun NJUN HENSON LEXANDER LK HENSON ULLY	1882 1453 - 1589 1589 - 1670 3945 - 3970 4053 - 4319 5295 - 5319 6850 - 6890		Office of Oil & MAY 07 2012 WW Denatimer) Gas	<u>Depth</u>
Formations Encountered: Surface: GROUND EL Big Injun NJUN ENSON LEXANDER LK GENESEO ULLY AMILTON SHALE	1882 1453 - 1589 1589 - 1670 3945 - 3970 4053 - 4319 5295 - 5319 6850 - 6890 6890 - 6920		Office of Oil & MAY 07 2012 WW Denatimer) Gas	Depth
Formations Encountered: Surface: GROUND EL ig Injun NJUN ENSON LEXANDER LK ENESEO ULLY AMILTON SHALE PPER MARCELLUS	1882 1453 - 1589 1589 - 1670 3945 - 3970 4053 - 4319 5295 - 5319 6850 - 6890 6890 - 6920 6920 - 6986		Office of Oil & MAY 07 2012 WW Denatimer) Gas	Depth
	1882 1453 - 1589 1589 - 1670 3945 - 3970 4053 - 4319 5295 - 5319 6850 - 6890 6890 - 6920 6920 - 6986 6986 - 7026		Office of Oil & MAY 07 2012 WW Denatimer) Gas	Depth

DATE:	04-10-2012
API #:	47-097-03835

District: MEADE Latitude: 38-50-28.3 Feet South of Deg. Longitude 80-13-45.4 Feet West of Deg. Company: MOUNTAIN V OIL and GAS Address: P.O. Box 470 T Bridgeport WV 26330 Agent: Mike Shaver Inspector: Bill Hatfield Date Permit Issued: 01-09-2012 4	uadrangle: A ounty: UPSH Min. Min. Casing & ubing 13 3/8 9 5/8	UR Sec.		Cement fill up Cu. Ft.
Latitude: 38-50-28.3 Feet South of Deg. Longitude 80-13-45.4 Feet West of Deg. Company: MOUNTAIN V OIL and GAS Address: P.O. Box 470 T Bridgeport WV 26330 Agent: Mike Shaver Inspector: Bill Hatfield Date Permit Issued: 01-09-2012 4	Min. Min. Casing & Cubing 13 3/8 9 5/8	Sec. Sec.	Left in well	up Cu. Ft.
Longitude 80-13-45.4 Feet West ofDeg. Company: MOUNTAIN V OIL and GAS Address: P.O. Box 470 T Bridgeport WV 26330 Agent: Mike Shaver Inspector: Bill Hatfield Date Permit Issued: 01-09-2012 4	Min. Casing & Cubing 13 3/8 9 5/8	Sec. Used in	Left in well	up Cu. Ft.
Company: MOUNTAIN V OIL and GAS Address: P.O. Box 470 T Bridgeport WV 26330 Agent: Mike Shaver Inspector: Bill Hatfield Date Permit Issued: 01-09-2012 4	Casing & Cubing 13 3/8 9 5/8	Used in	Left in well	up Cu. Ft.
Address: P.O. Box 470 C T Bridgeport WV 26330 Agent: Mike Shaver Inspector: Bill Hatfield Date Permit Issued: 01-09-2012	13 3/8 9 5/8			up Cu. Ft.
Address: P.O. Box 470 Bridgeport WV 26330 Agent: Mike Shaver Inspector: Bill Hatfield Date Permit Issued: 01-09-2012 4	13 3/8 9 5/8			up Cu. Ft.
Agent: Mike Shaver Inspector: Bill Hatfield Date Permit Issued: 01-09-2012 4	9 5/8		42'	OALID IS
Inspector: Bill Hatfield Date Permit Issued: 01-09-2012 4				SAND IN
Date Permit Issued: 01-09-2012 4	7 11		168	75 SK
12-444 V 441111 12044441	<i>/</i>		1695	230 SK
	4 1/2 N 80		7320	150 SK
Date Well Work Commenced: 01-16-2012				
Date Well Work Completed: 02-04-2012				
Verbal Plugging:				
Date Permission granted on:		RECE		
Rotary Cable Rig		Office of ()	
Total Vertical Depth (ft): 7330	a			
Total Measured Depth (ft): 7330		MAY U	2012	
Fresh Water Depth (ft.): 80' 143	Š	A A S Proc.		
Salt Water Depth (ft.): 1165,	Serves Serve Serves 3 / 2			
Is coal being mined in area (N/Y)?		Part 2 at 1 d @ 16 8 T.T.)M
Coal Depths (ft.): 110				
Void(s) encountered (N/Y) Depth(s)				<u> </u>

Were core samples taken? YesNo_X	i .	Were cuttings ca	ught during drilling	g? Yes X No
Were Electrical, Mechanical or Geophysical logs reco	rded on this w	ell? If yes, pleas	se list ELECTRIC	AL
NOTE: IN THE AREA BELOW PUT THE FRACTURING OR STIMULATING, PHYSICAL DETAILED GEOLOGICAL RECORD OF TH COAL ENCOUNTERED BY THE WELLBORE Perforated Intervals, Fracturing, or Stimulating:	L CHANGE, E TOPS AN	ETC. 2). THE V D BOTTOMS	WELL LOG WHI OF ALL FORM	CH IS A SYSTEMATIC
SLICK WATER FRACK H2O 15873 SLURR	Y 16919, 8	0/100 1819 S	K, 40/70 3718 \$	SK,
Avg Psi 5259 Avg Rate 68.7 BPM , ISIP 211		· · · · · · · · · · · · · · · · · · ·		
		•		1
PERFS 7302 - 7297 20 HOLES			Office of C	M & Gas
7294 - 7286 32 HOLES			LAAV () P	(0010
7270 - 7262 32 HOLES			1VIA 1 U 6	(, W 15.
Plug Back Details Including Plug Type and Depth(s):	······		MAN Dens	imen of
		gass p	wironm <u>ėni</u> :	al Protection
Formations Encountered: Surface:	Top Depth			Bottom Depth
GROUND EL	1985		PURCELL Ls 7	240 - 7244
BIG LIME	1350	1540	LOWER MARG	CELLUS 7244 - 7313
INJUN	1540	2050	ONONDAGA	7315 - 7323
4 TH SAND	2050	2140	TD 7330	
5 TH SAND	2140	2165		
RILEY 1	2830	3050		
RILEY 2	3050	3500		
RILEY 3	3500	3840	-	
BENSON	3840	3860		
ELK 6	5270	5283		
HAVERTY	6520	6538		·
GENESEO	7050	7086		
TULLY Ls	7086	7120		
HAMILTON	7120	7204		
UPPER MARCELLUS	7204	7240		

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	April 16, 2012
API#:	47-103-02582
	REVISED FOR

COMPLETION

m name:	Nice, Johne E. et al	_ Operator Wel	l No.:	Nice Unit B #1H	
CATION: Elevat	ion: 1,344'	_ Quadrangle: _	Nev	v Martinsville	······
District: Latitude: _ Longitude	14,220 Feet South of 39 Deg		30Sec		
Company:	Stone Energy Corporation				
Address:	6000 Hampton Center, Suite B	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	Morgantown, WV 26505	20"	43'	43'	GTS
Agent:	Tim McGregor	13.375"	1,155'	1,155'	1,038 - CTS
Inspector:	Derek Haught	9.625"	2,514'	2,514'	1,046 - CTS
Date Permit	Issued: 9/24/2010	5.5"		11,077'	2,636
Date Well W	ork Commenced: 11/29/2010	2.375"		7,007'	
Date Well W	ork Completed: 10/28/2011				
Verbal Plugg	ging:				
Date Permis	sion granted on:				
Rotary 🗸	Cable Rig				
Total Verti	cal Depth (ft): 6,709				
	ured Depth (ft): 11,088				
	r Depth (ft.): 113				
Salt Water					
	mined in area (N/Y)? No				
Coal Depths (ft.): 1,022					
	untered (N/Y) Depth(s) N/A	**************************************			
Producing form Gas: Initial ope Final open f Time of ope Static rock Pres	n flow 2,000 MCF/d Oil: Initial open flow 2,860 MCF/d Final open flon flow between initial and final tests sure 2,700 psig (surface pressure) a	zone depth (ft) 7 flow 0 Bt w 0 Bb 36 Hours fter 9 Hour	7,043' to 10,992' ol/d l/d	ata on separate s	heet)
Gas: Initial ope Final open fl	ng formation Pay zo n flow MCF/d Oil: Initial open to ow MCF/d Final open flo 1 flow between initial and final tests	flowBb	ol/d		
Time of oper	surepsig (surface pressure) a		rs		
	sureparg (surface pressure) a				

Were core samples taken? YesNo	<u></u>	ere cuttings caught du	ring drilling? Yes X No
Were Electrical, Mechanical or Geophysical log	gs recorded on this well?	If yes, please list_N	/IWD Gamma Ray, Mud Log,
NOTE: IN THE AREA BELOW PUT FRACTURING OR STIMULATING, PHY DETAILED GEOLOGICAL RECORD O COAL ENCOUNTERED BY THE WELLB	SICAL CHANGE, ET F THE TOPS AND	C. 2). THE WELL I BOTTOMS OF AI	LOG WHICH IS A SYSTEMATIC LL FORMATIONS, INCLUDING
Perforated Intervals, Fracturing, or Stimulating:			
Perforated 12 intervals from 10992' to 7043'. Per	rformed 12 individual sta	ges of slick water stin	nulation using 4,279,086 gals
(92.523%) fresh water, 27669 gals (0.647%) 15%	6 HCl, 168827 gals (3.94	5%) 10 lb Guar Gel, 1	114009 gals (2.664%) 20 lb Guar Gel
60 gals (0.001%) Corrosion Inhibitor, 974 gals (0.	.023%) Bio-Cide, 2731 ((0.064%) Friction Redu	ucer, 366 gals (0.009%) Scale
Inhibitor, 2634 gals (0.062%) Surfactant, 671 lbs	(0.002%) Gel, 11602 lbs	(0.033%) Polymer G	el, 166 lbs (0.001%) Iron Stabilzer
982 gal (0.0229%) Clay Stabilizer, 148 gals (0.00	4%) Friction Reduce, 42	gals (0.001%) Borate	e Crosslinker, 531700 lbs 80/100 San
and 3560480 lbs 40/70 Sand. AvBDP = 5892 psi,	AvTP = 6538 psi, AvMT	P = 9001 psi, AviSIP	= 4608, AvRate = 80.87 bpm.
Plug Back Details Including Plug Type and Dep	oth(s):		- Mile - Or Antonia
			-
Produced on the Australian State of the Stat			
Formations Encountered: Surface:	Top Depth	1	Bottom Depth
See attached sheet for formations enco	ountered and their d	lepths.	

			·
1,000	A1101121		, va.
19579			
		50	g to the grant of
		1901	

Nice et al Unit B #1H API 47-103-02582 Stone Energy Corporation Horizontal

•	Top	Top (f	t	·-	Bottom (ft
	(ft TVD)	MD)	_	TVD)	MD)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027	•	*	1992	
Little Lime	1992		*	2034	
Sandstone & Shale	2034		*	2097	
Big Lime	2097		*	2291	
Big Injun	2291		*	2334	
Sandstone & Shale	2334		*	2701	
Berea sandstone	2701		*	2714	
Shale	2714		*	2947	
Gordon	2947		*	2995	
Undiff Devonian Shale	2 9 95		*	5950	5956
Rhinestreet	5950	5956	~	6302	6338
Cashaqua	6302	6338	~	6412	6485
Middlesex	6412	6485	~	6430	6512
West River	6430	6512	~	6498	6630
Geneseo	6498	6630	~	6518	6670
Tully limestone	6518	6670	~	6553	6755
Hamilton	6553	6755	~	6578	6835
Marcellus	6578	6835	~	6709	11088
TD	6709	11088			

^{*} From Pilot Hole Log

[~] From MWD Gamma Log

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	April 13, 2012
API#:	47-103-02600
	REVISED FOR
	COMBIETICAL

Farm name	Nice, Johne E. et al	_ Operator Well	No.:	Nice Unit A #2H	COMPLETE
	N: Elevation: 1,344'			Martinsville	
				etzel	
	District: Magnolia Latitude: 14,200 Feet South of 39 Deg	County:	30Sec	·	.,.
	Longitude 9,910 Feet West of 80 De	g. 47 Min	Sec	.	4
Co	Stone Energy Corporation				
	ddress: 6000 Hampton Center, Suite E	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	Morgantown, WV 26505	20"	40'	40'	GTS
A	gent: Tim McGregor	13.375"	1,164'	1,164	1,061 - CTS
	spector: Derek Haught	9.625"	2,494'	2,494'	1,078 - CTS
	ate Permit Issued: 11/17/2010 & 3/8/2011	5.5"		13,208'	3,120
_	ate Well Work Commenced: 12/17/2010	2.375"		7,059'	
	ate Well Work Completed: 11/11/2011				
 	erbal Plugging:				
	ate Permission granted on:				
	Rotary Cable Rig				
	Total Vertical Depth (ft): 6,548				
	Total Measured Depth (ft): 13,232				
	Fresh Water Depth (ft.): 114				
	Salt Water Depth (ft.): 1,786				
,	coal being mined in area (N/Y)? No				
	Coal Depths (ft.): 1,022				
	oid(s) encountered (N/Y) Depth(s) N/A				
Pro Gas F	FLOW DATA (If more than two producing formation Marcellus Pa : Initial open flow 1,100 MCF/d Oil: Initial open Final open flow 3,390 MCF/d Final open f Time of open flow between initial and final tests ic rock Pressure 2,100 psig (surface pressure)	ny zone depth (ft) n flow 0 B low 0 B 274 Hour	7,195' to 13,095' Bbl/d bl/d s	data on separate	sheet)
Gas I	ond producing formation Pay : Initial open flow MCF/d Oil: Initial open final open flow MCF/d Final open f Time of open flow between initial and final tests	n flowB lowB	Bbl/d bl/d		
Stat	ic rock Pressurepsig (surface pressure)) afterHor			
I certify us	nder penalty of law that I have personally examination and that, based on my inquiry of those in formation is true, accurate, and complete.	ed and am familia	iately responsi	ble for obtaining 4/24/2012	ed on this document the information I be
	Signatur	re /	_	Date	

Signature

Were core samples taken? YesN	√оX	Were cuttin	ngs caught during	g drilling? Yes_X	No
Were Electrical, Mechanical or Geophysic		s well? If yes.	please list MW	D Gamma Ray, M	ud Log,
and CBL					
NOTE: IN THE AREA BELOW DETAILED GEOLOGICAL RECORD COAL ENCOUNTERED BY THE WERE Perforated Intervals, Fracturing, or Stimul	PHYSICAL CHANG RD OF THE TOPS ELLBORE FROM SU	E, ETC. 2). T AND BOTTO	THE WELL LOOMS OF ALL	G WHICH IS A SYST FORMATIONS, IN	TEMATIC
•			liala watar ationula	ation using 6 695 912 gr	ale
Perforated 18 intervals from 13095' to 7195					
(79.8946%) fresh water, 37313 gals (0.558 Guar Gel, 86 gals (0.0013%) Corrosion Inh					
(0.0075%) Scale Inhibitor, 4345 gals (0.065					
Polymer Gel, 260 lbs (0.0005%) Iron Stabil					s 40/70
Sand. AvBDP = 5769 psi, AvTP = 6658 ps					
Plug Back Details Including Plug Type ar				· · · · · · · · · · · · · · · · · · ·	
				, , , , , , , , , , , , , , , , , , ,	
			w market "		
Formations Encountered: Surface:	Top Dep	oth	1	Bottom Dep	th
See attached sheet for formations	encountered and	their depths	 3.	1000000	
				1-	
	4-				
			 -		

Nice et al Unit A #2H API 47-103-02600 Stone Energy Corporation

Horizontal

·	Тор		ft	· ·	Bottom (ft MD)
	(ft TVD)	MD)		TVD)	IVID)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027		*	1992	
Little Lime	1992		*	2034	
Sandstone & Shale	2034		*	2097	
Big Lime	2097		*	2291	
Big Injun	2291		*	2334	
Sandstone & Shale	2334		*	2701	
Berea sandstone	2701		*	2714	
	2714		*	2947	
Shale	2947		¥	2995	
Gordon	2995		s)	5942	5950
Undiff Devonian Shale	5942	5950	, ,	6303	6390
Rhinestreet	6303	6390		~ 6395	6570
Cashaqua		6570		~ 6413	6608
Middlesex	6395		,	~ 6474	6750
West River	6413	6608)		6810
Geneseo	8474	6750	,	~ 6497	
Tully limestone	6497	6810	,	~ 6527	6894
Hamilton	6527	6894	4	~ 6549	6970
Marcellus	6549	6970)	~ 6548	13232
TD	6548	1323	2		

^{*} From Pilot Hole Log

[~] From MWD Gamma Log

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	April 16, 2012
API #:	47-103-02601
	REVISED FOR

REVISED FOR COMPLETION

Farm name:	Nice, Johne E. et al	Operator Well	No.:1	Nice Unit A #3H	
LOCATION: Elevatio		Quadrangle:		Martinsville	
District: Latitude: Longitude	Magnolia 14,200 Feet South of 9,870 39 Peg. Deg. 9,870 Feet West of 80 Peg.		30Sec		
Company: S	tone Energy Corporation				
	000 Hampton Center, Suite B	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
M	organtown, WV 26505	20"	40'	40'	GTS
Agent: Ti	m McGregor	13.375"	1,151'	1,151'	1,071 - CTS
Inspector: De	erek Haught	9.625"	2,245'	2,245'	1,144 - CTS
Date Permit Is	sued: 11/17/2010	5.5"		11,582'	3,150
Date Well Wo	rk Commenced: 01/01/2011	2,375"		7,236'	
Date Well Wor	rk Completed: 11/22/2011				
Verbal Pluggir	ng:				
Date Permission	on granted on:				
Rotary 🗸	Cable Rig				
Total Vertica	al Depth (ft): 6,568				
	ed Depth (ft): 11,611				
	Depth (ft.): 113				
Salt Water De					
Is coal being n	nined in area (N/Y)? No				
Coal Depths (f					
Void(s) encour	ntered (N/Y) Depth(s) N/A				
Producing forma Gas: Initial open Final open flo Time of open Static rock Pressu Second producing Gas: Initial open	flow 1,500 MCF/d Oil: Initial open flow 2,980 MCF/d Final open flow between initial and final tests pre 2,375 psig (surface pressure) af g formation Pay zon MCF/d Oil: Initial open flow MCF/d Oil: Initial open flow	zone depth (ft) 7 low 0 Bb v 0 Bb 199 Hours rter 18 Hour ne depth (ft) low Bb	7,254' to 11,469' Dl/d l/d rs	ata on separate s	heet)
Final open flor	wMCF/d Final open flow flow between initial and final tests		l/d		
•	repsig (surface pressure) af		rs		
Il the attachments and	of law that I have personally examined a that, based on my inquiry of those indiv rue, accurate, and complete.				
	Signature		4/	24/2012	
	Signature			Date	

Were core samples taken? Yes No X	Were cuttings caught during drilling? Yes X No
Were Electrical, Mechanical or Geophysical logs recor	rded on this well? If yes, please list MWD Gamma Ray, Mud Log
and CBL	
FRACTURING OR STIMULATING, PHYSICAL	FOLLOWING: 1). DETAILS OF PERFORATED INTERVAL L CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMAT E TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDI FROM SURFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulating:	
Perforated 10 intervals from 11469' to 7254'. Performed	d 10 individual stages of slick water stimulation using 4,566,954 gals
(77.5329%) fresh water, 25788 gals (0.5647%) 15% HC	cl, 287834 gals (6.30251%) 10 lb Guar Gel, 701988 gals (15.3710%) 20 lb
Guar Gel, 52 gals (0.0011%) Corrosion Inhibitor, 1020 g	gals (0.0223%) Bio-Cide, 3135 (0.0686%) Friction Reducer, 363 gals
(0.0079%) Scale Inhibitor, 3197 gals (0.0700%) Surfacta	ant, 1641 lbs (0.0043%) Gel, 12438 lbs (0.0327%) Polymer Gel, 177 lbs
(0.0005%) Iron Stabilizer, 975 gal (0.0213%) Clay Stabil	lizer, 516000 lbs 80/100 Sand, 3541178 lbs 40/70 Sand
AvBDP = 6048 psi, AvTP = 7038 psi, AvMTP = 9273 psi	ii, AvISIP = 4505, AvRate = 80.43 bpm.
Plug Back Details Including Plug Type and Depth(s):	
-	
Formations Encountered: Surface:	Top Depth / Bottom Depth
See attached sheet for formations encounter	red and their depths.

Nice et al Unit A #3H API 47-103-02601 Stone Energy Corporation

	Horiz	zontal			
	Тор	Top (f	t	Bottom (ft	Bottom (ft
	(ft TVD)	MD)		TVD)	MD)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027		*	1992	
Little Lime	1992		əţe	2034	
Sandstone & Shale	2034		*	2097	
Big Lime	2097		*	2291	
Big Injun	2291		*	2334	,
Sandstone & Shale	2334		*	2701	
Berea sandstone	2701		*	2714	
Shale	2714		*	2947	
Gordon	2947		*	2995	
Undiff Devonian Shale	2995		*	5935	5945
Rhinestreet	5935	5945	~	6293	6350
Cashaqua	6293	6350	~	6407	6522
Middlesex	6407	6522	~	6424	6554
West River	6424	6554	~	6487	6706
Geneseo	6487	6706	~	6511	6804
Tully limestone	6511	6804	~	6544	7026
Hamilton	6544	7026	~	6567	7155
Marcellus	6567	7155	~	6568	11611
TD	6568	11611			

^{*} From Pilot Hole Log

[~] From MWD Gamma Log

Gas: Initial open flow___

Final open flow____

Static rock Pressure_

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	April 23, 2012
API#:	47-103-02602
	REVISED FOR

District: Magnolia	County:	W	etzel	
Latitude: 14,220 Feet South of 39 Deg. Longitude 9,910 Feet West of 80 Deg.	42 Min	30Sec		
Company: Stone Energy Corporation				÷
Address: 6000 Hampton Center, Suite B	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Morgantown, WV 26505	20"	43'	43'	GTS
Agent: Tim McGregor	13.375"	1,125'	1,125'	1,158 - CTS
Inspector: Derek Haught	9.625"	2,514'	2,514'	1,148 - CTS
Date Permit Issued: 11/17/2010	5.5"		12,152'	2,879
Date Well Work Commenced: 1/30/2011	2.375"		7,309'	
Date Well Work Completed: 9/1/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 6,697				
Total Measured Depth (ft): 12,153				
Fresh Water Depth (ft.): 111				
Salt Water Depth (ft.): 1,803				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 1,022				
Void(s) encountered (N/Y) Depth(s) N/A				
N FLOW DATA (If more than two producing formation oducing formation Marcellus Pay z as: Initial open flow 400 MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests	cone depth (ft) 7 ow 0 Bb	7,328' to 12,051' ol/d		neet)

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Pay zone depth (ft)_

Bbl/d

MCF/d Oil: Initial open flow

_MCF/d Final open flow _

____psig (surface pressure) after __

Time of open flow between initial and final tests____

4/24/2012

Were core samples taken? YesNoX	Were	cuttings caught during (drilling? Yes_X_No_	
Were Electrical, Mechanical or Geophysical logs and CBL	recorded on this well? It	f yes, please list_MWD	Gamma Ray, Mud L	og,
NOTE: IN THE AREA BELOW PUT T FRACTURING OR STIMULATING, PHYSI DETAILED GEOLOGICAL RECORD OF COAL ENCOUNTERED BY THE WELLBO	CAL CHANGE, ETC. THE TOPS AND BO	2). THE WELL LOG DITOMS OF ALL E	WHICH IS A SUSTEEN	A TOTAL
Perforated Intervals, Fracturing, or Stimulating:				
Perforated 14 intervals from 12051' to 7328'. Perforated 14 intervals from 12051' to 7328'.	rmed 14 individual stages	of slick water stimulation	on using 5,122,908 gals	
(91.079%) fresh water, 29174 gals (0.570%) 15% H	ICI, 349564 gals (6.824%) 10 lb Guar Gel, 67277	gals (1.313%) 20 lb Guar	 Gel
70 gals (0.001%) Corrosion Inhibitor, 1139 gals (0.0)22%) Bio-Cide, 2813 (0.0	055%) Friction Reducer,	, 421 gals (0.008%) Scale	
Inhibitor, 3067 gals (0.060%) Surfactant, 775 lbs (0.				 er.
1131 gal (0.022%) Clay Stabilizer, 629 gals (0.012%)				
AvBDP = 6048 psi, AvTP = 6810 psi, AvMTP = 917	3 psi, AvISIP = 4576, AvF			
Plug Back Details Including Plug Type and Depthe	(s):	· · · · · · · · · · · · · · · · · · ·		
	· · · · · · · · · · · · · · · · · · ·			
Formations Encountered: Surface:	Top Depth	. /	Bottom Depth	÷
See attached sheet for formations encour	ntered and their dep	ths.		
			· · · · · · · · · · · · · · · · · · ·	
			 	
	-	· · · · · · · · · · · · · · · · · · ·		
				
	AMIT III			

Nice et al Unit B #2H API 47-103-02602

Stone Energy Corporation Horizontal

	Тор	Top (ft		Bottom (f	t Bottom (ft
	(ft TVD)	MD)		TVD)	MD)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027		*	1992	
Little Lime	1992		*	2034	
Sandstone & Shale	2034		*	2097	
Big Lime	2097		Ą	2291	
Big Injun	2291		*	2334	
Sandstone & Shale	2334		sį.	2701	
Berea sandstone	2701		*	2714	
Shale	2714		*	2947	
Gordon	2947		*	2995	
Undiff Devonian Shale	2995		*	5887	5900
Rhinestreet	5887	5900	^	6273	6360
Cashaqua	6273	6360	^	6401	6568
Middlesex	6401	6568	^	6417	6600
West River	6417	6600	^	6485	6770
Geneseo	6485	6770	^	6505	6835
Tully limestone	6505	6835	, ~	6539	6975
Hamilton	6539	6975	^	6562	7091
Marcellus	6562	7091	. ^	6697	12153
TD	6697	1215	3		

^{*} From Pilot Hole Log

[~] From MWD Gamma Log

	ij.
DATE:	April 23, 2012
API#:	47-103-02603
	REVISED FOR
	குகாரகை குடைக

					COMPLET
Farm name:	Nice, Johne E. et al	Operator Well	l No.:	Nice Unit B #3H	
OCATION: I	Elevation: 1,344'	Quadrangle: _	New	/ Martinsville	
Distri	ict: Magnolia	County:	w	etzel	
Latitu Long	ide: 14,210 Feet South of 39 Deg.	42 Min	. 30 Sec		***************************************
Compa	ny: Stone Energy Corporation				
Addres	s: 6000 Hampton Center, Suite B	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	Morgantown, WV 26505	20"	43'	43'	GTS
Agent:	Tim McGregor	13.375"	1,147'	1,147'	1,062 - CTS
Inspect	or: Derek Haught	9.625"	2,544'	2,544'	1,229 - CTS
Date Po	ermit Issued: 11/17/2010	5.5"		11,700'	2,700
Date W	ell Work Commenced: 1/15/2011	2.375"		7,330'	
	Vell Work Completed: 12/1/2011				
Verbal	Plugging:				
Date Pe	ermission granted on:				
Rotar	y Cable Rig				
	Vertical Depth (ft): 6,728				
	Measured Depth (ft): 11,700				
	Water Depth (ft.): 113				
	Vater Depth (ft.): 1,785				
Is coal	being mined in area (N/Y)? No				
Coal D	epths (ft.): 1,022				
Void(s	encountered (N/Y) Depth(s) N/A				
Producin Gas: Initia Final c Time c	V DATA (If more than two producing formation g formation Marcellus Pay z all open flow 800 MCF/d Oil: Initial open flow pen flow 4,230 MCF/d Final open flow of open flow between initial and final tests k Pressure 2,400 psig (surface pressure) after the producing formation of the producing f	zone depth (ft) 7 ow 0 Bb v 0 Bb 131 Hours	,337' to 11,623' bl/d l/d	ata on separate si	heet)
Second pr	roducing formation Pay zor	ne depth (ft)			
	al open flowMCF/d Oil: Initial open flo				
	ppen flowMCF/d Final open flow		I/d		
	of open flow between initial and final tests		S		
certify under p	enalty of law that I have personally examined a nts and that, based on my inquiry of those indivition is true, accurate, and complete. Signature	and am familiar viduals immedia	with the inforn tely responsibl	e for obtaining tl 24/2012	
	Signature			Date	

were core samples taken? Yes No ^	_ We	ere cuttings caught di	uring drilling? Yes No
Were Electrical, Mechanical or Geophysical logs reand CBL	ecorded on this well?	? If yes, please list_	MWD Gamma Ray, Mud Log,
NOTE: IN THE AREA BELOW PUT TI FRACTURING OR STIMULATING, PHYSIC DETAILED GEOLOGICAL RECORD OF 'COAL ENCOUNTERED BY THE WELLBOR	CAL CHANGE, ET THE TOPS AND	C. 2). THE WELL BOTTOMS OF A	LOG WHICH IS A SYSTEMATIC LL FORMATIONS, INCLUDING
Perforated Intervals, Fracturing, or Stimulating:			
Perforated 12 intervals from 11623' to 7337'. Perfora	med 14 individual sta	ges of slick water stir	mulation using 4,440,634 gals
(88.935%) fresh water, 31174 gals (0.708%) 15% HG	Cl, 147360 gals (6.78	19%) 10 lb Guar Gel,	298767 gals (6.789%) 20 lb Guar Gel,
80 gals (0.002%) Corrosion Inhibitor, 1012 gals (0.02	23%) Bio-Cide, 2573	(0.059%) Friction Re	ducer, 375 gals (0.009%) Scale
Inhibitor, 2811 gals (0.064%) Surfactant, 745 lbs (0.0)20%) Gel, 11604 lbs	(0.032%) Polymer G	Gel, 221 lbs (0.001%) Iron Stabilzer,
960 gal (0.022%) Clay Stabilizer, 297 gals (0.007%)	Friction Reduce, 553	320 lbs 80/100 Sand	and 3378080 lbs 40/70 Sand.
AvBDP = 6052 psi, AvTP = 6836 psi, AvMTP = 9196	psi, AvISIP = 4803,	AvRate = 80.33 bpm	
Plug Back Details Including Plug Type and Depth(s):	· · · · · · · · · · · · · · · · · · ·	4-1-400-0-1
		W-11-1-1-1	Australia .
			, · · · · · · · · · · · · · · · · · · ·
Formations Encountered: Surface:	Top Depth	/	Bottom Depth
See attached sheet for formations encoun	ntered and their d	lepths.	4-10-5-6-t
			1

	******		- MATCH

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		W	
			*·····
			Marie

Nice et al Unit B #3H API 47-103-02603 Stone Energy Corporation Horizontal

	Тор т		(ft	Bottom (ft	Bottom (ft
	(ft TVD)	MD)		TVD)	MD)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027		*	1992	
Little Lime	1992		ķ	2034	·
Sandstone & Shale	2034		*	2097	
Big Lime	2097		*	2291	
Big Injun	2291		*	2334	
Sandstone & Shale	2334		*	2701	
Berea sandstone	2701		*	2714	
Shale	2714		*	2947	
Gordon	2947		*	2995	
Undiff Devonian Shale	2995		*	5949	5962
Rhinestreet	5949	5962	~	6303	6406
Cashaqua	6303	6406	~	6414	6606
Middlesex	6414	6606	~	6434	6648
West River	6434	6648	~	6500	6818
Geneseo	6500	6818	·~	6519	6876
Tully limestone	6519	6876	~	6558	7033
Hamilton	6558	7033	~	6587	7178
N.A					

6587

6728

7178

11700

6728

11700

Marcellus

TD

^{*} From Pilot Hoel Log

[~] From MWD Gamma Log

DATE:	March 8, 2012
API#:	47-103-02625

Farm name: West Virginia D	Division of Natural Resources	Operator Well No.: WVDNR 1102							
LOCATION: Elevation:	805'	Quadrangle: Center Point							
District: Grant Latitude: 39.504 Longitude 80.60	Feet South of 39 Deg.	County: Wetzel g. 30 Min. 13.90 Sec.							
Company: Triac	d Hunter, LLC								
Address: P.O	. Box 430	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.				
Ren	o, Ohio 45773								
Agent: Kimbe	rly Arnold	20"	44'	44'					
Inspector: Davi	d Scranage	13 3/8"	793.8'	793.8'	719.8 cu. ft.				
Date Permit Issu	ed: 01/20/2011	9 5/8"	3140.55'	3140.55'	1174.1 cu. ft.				
Date Well Work	Commenced: 03/04/2011	5 1/2"	13182.26'	13182.26'	3293.28 cu. ft.				
Date Well Work	00/40/0044								
Verbal Plugging	•								
Date Permission	granted on:								
Rotary 🗸	Cable Rig								
	Depth (ft): 6914'								
	d Depth (ft): 12517'								
Fresh Water De									
Salt Water Dep	oth (ft.):								
	ned in area (N/Y)? No								
): 225'-340', 380'-394', 590'-598'		1						
Void(s) encount	ered (N/Y) Depth(s) None								
Producing formati Gas: Initial open flow Final open flow Time of open flow Static rock Pressure	ow 3.8 M MCF/d Oil: Initial open f 4.93 M MCF/d Final open flow ow between initial and final tests 117 e 2879 psig (surface pressure) at	zone depth (ft) 6 low 0 Bl v 59 Bb Hours ter 117 Hou	6820' bl/d bl/d	ata on separate s	heet)				
Static rock Pressur	ow MCF/d Oil: Initial open for MCF/d Final open flow ow between initial and final tests e psig (surface pressure) at	w Bb Hours fter Hou	rs		1				
all the attachments and th	law that I have personally examined nat, based on my inquiry of those indine, accurate, and complete.								
	of Lange Ling		3 3	-12					
•	Signature			Date					

FRACTURING OR STIM DETAILED GEOLOGICA	ULATING, PHYSICAL CHANGE, E	G: 1). DETAILS OF PERFORATED INTERVA TC. 2). THE WELL LOG WHICH IS A SYSTEMA D BOTTOMS OF ALL FORMATIONS, INCLUD CCE TO TOTAL DEPTH.
COAL ENCOUNTERED I	JI IIII WEELDOMI IRONI SOM 2	
Perforated Intervals, Fracturin	ng, or Stimulating:	
Please refer to attached	perforation and fracture treatme	nt report
Plug Back Details Including	Plug Type and Depth(s):	
Formations Encountered:	Top Depth	/ Bottom Depth
Surface:		
0'-35' sand	520'-580' shale	2465'-2470' Berea
35'-50' shale	580'-590' sand	2470'-2650' shale
50'-65' sand	590'-598' shale	2650'-2710' Gordon
65'-185' shale	598'-601' coal	2710'-2805' shale
185'-225' sand	601'-700' shale	2805'-2815' Fourth Sd
225'-340' shale	700'-760' sand	2815'-2900' Shale
340'-343' coal	760'-960' shale	2900'-2905' Fifth Sd
343'-355' shale	960'-1600' sand and shale	2905'-6759' Devonian Shale
355'-380' sand	1600'-1655' sand	6759'-6783' Hamilton
380'-394' shale	1655'-1795' shale	6783'-6874' Tully
394'-395' coal	1795'-1810' Little Lime	6874' Marcellus
395'-415' shale	1810'-1835' Pencil Cave	
415'-430' sand	1835'-1885' Big Lime	
430'-460' shale	1885'-2085' Big Injun	
460'-520' sand	2085'-2465' shale	
	•	hand the second of the second

WVDNR 1102
Perf Spacing for 16 stages

Stage Length:
Num Clusters:
Dist between Perfs:
Perf length:
Stages:
Start Depth: 310 4 to 5 41'-77' 3' 16 12460

	90 @:
The second secon	7597'

Stage	Stage	Stage	Stage	Stage	Stage	Stage	Stage											
15	15	14	13	12	11	10	9	∞	7	6	5	4	ω	2	1			
7810	8120	8340	8740	9050	8956	9670	9985	10290	10600	10910	11220	11530	11840	12144	12460	Plug Depth		
7772'-7769'	8082'-8079'	8392'-8389'	8702'-8699'	9012'-9009'	9322'-9319'	9632'-9626'	9942'9939'	10252'-10249'	10562'-10559'	10872'-10869'	11182'-11179'	11492'-11489'	11802'-11799'	12112'-12109'	12426'-12423'	Interval 1		90 @ :
7695'-7692'	8005'-8002'	8315'-8312'	8625'-8622'	8935'-8932'	8245'-9242'	9555'-9552'	9865'-9862'	10175'-10172'	10845'-10482'	10795'-10792'	11105'-11102'	11415'-11412'	11725'-11722'	12035'-12032'	12377'-12374'	Interval2		7597'
7618'-7615'	7928'-7925'	8238'-8235'	8548'-8545'	8858'-8855'	9168'-9165'	9478'-9475'	9788'-9785'	10098'-10095'	10408'-10405'	10718'-10715'	11028'-11025'	11338'-11335'	11648'-11645'	11958'-11955'	12314'-12311'	Interval 3		
7541'-7538'	7851'-7848'	8261'-8158'	8471'-8468'	8778'-8781'	9091'-9088'	7401'-9398'	9711'-9708'	10021'-10018'	10331'-10328'	10641'-10638'	10951'-10948	11261'-11258'	11571'-11568'	11881'-11878'	12251'-12248'	Interval 4		
															12188'-12185'	Interval 5		
310	310	220	400	310	318	302	315	305	310	310	310	310	310	304	316	Stage Length	FT	
7231	7203	7415	7281	7110	7180	7303	7519	7760	7403	7403	7466	7552	7616	7643	7463	Avg Treating Pressure	PSI	
6969	7608	7900	7591	7481	7469	7579	7909	8611	7785	7623	8159	8040	8113	8635	7731	Max Pressure	PSI	
83.6	83.9	83.2	84.1	84.2	85.3	83.3	82.4	81.3	82.2	83.9	79.5	83.8	80.1	81.3	78.6	Avg Rate	врм	J
85.3	84.7	86	87.1	86.3	86.3	84.4	83.2	84	85.2	84.7	84	85.2	84.1	83.3	84.5	Max Rate	BPM	
9827	9997	1005/	9899	10121	9970	10069	9934	11242	9684	9960	40432	10024	10087	10162	10152	Fluid Vol	bbls	
427000	42/000	42/100	42/400	42/000	42/000	427100	427200	426500	426800	42/200	42/000	42/000	42/000	42/000	431400	Total Sand	lbs	